

Electronic Data Reporting Acid Rain Program/ Subpart H

March 2003 Version 2.1

1. Who is required to use Electronic Data Reporting v2.1 formats?

Nearly all units required to monitor and report emissions data under 40 CFR Part 75 must use EDR v2.1. Presently, this includes Acid Rain Program units, and units in the NO_x Budget Trading Program that are subject to the monitoring and reporting provisions of Subpart H of Part 75. However, note that as the result of changes made to Part 75 on June 12, 2002, certain affected units are required to upgrade to a new EDR version, known as v2.2.

2. Which Acid Rain Program and NO_x Budget Trading Program facilities are required to use EDR v2.1 and which ones are required to use EDR v2.2?

Acid Rain Program units have been required to report in EDR v2.1 since April 1, 2000.

Non-Acid Rain affected facilities subject to the NO_x Budget Trading Program must report in EDR v2.1 (or v2.2) beginning on:

- The applicable "commencement of reporting" date specified in the State SIP or in 40 CFR Part 97; or
- An earlier date if the NO_x Authorized Account Representative intends to apply for early reduction credits.

The following units are required to upgrade from EDR v2.1 to v2.2, as the result of changes to Part 75 that were promulgated on June 12, 2002:

- Units that do not produce electrical or steam load (e.g., cement kilns, refinery process heaters, etc.)
- Other ARP and Subpart H units that <u>elect</u> to use certain new options provided by the June 12, 2002 rule.

EPA has provided separate implementation guidance for each category of rule change, to clarify whether an upgrade to v2.2 is needed (see "Implementation Guidelines for the June 12, 2002 Revisions to Part 75"--- available on the CAMD website at www.epa.gov/airmarkets/).

3. If my facility is load-based and I do not elect to use any of the new options in the June 12, 2002 rule, may I continue to report in EDR v2.1 format, using the v2.1 instructions?

Yes—or you may voluntarily upgrade to v2.2. If you elect to continue reporting in v2.1, EPA recommends that you replace the January 24, 2001 editions of EDR v2.1 and the accompanying Reporting Instructions with the updated March 2003 editions. The March 2003 revised EDR v2.1 Reporting Instructions reflect the June 12, 2002 rule changes, and also correct known errors in the January 24, 2001 edition and expand the instructions for certain fields and record types.

4. How do the structure and data elements of differ in the March 2003 and January 24, 2001 editions of EDR v2.1?

There are <u>no</u> structural differences between the January 24, 2001 and March 2003 editions of EDR v2.1. All of the record types and data fields listed in Tables 1 through 5 below are common to both editions.

The data element descriptions in a number of v2.1 Record Types in the March 2003 edition differ from the corresponding data element descriptions in the January, 24, 2001 edition. Some new codes have also been added to the "RANGE" and "UNITS" columns of several records, and a few data fields have been reserved. Most of these changes are associated with the June 12, 2002 rule revisions and with the discontinuation of the Ozone Transport Commission (OTC) NO_x Budget Trading Program in the Northeastern U.S.

Table A-1 in Appendix A summarizes the differences in the data element descriptions, codes, etc. between the March 2003 and January 24, 2001 editions of EDR version 2.1.

5. How is the EDR organized?

The EDR is divided into five tables:

Table 1 provides an index listing all the possible EDR record types that may be submitted in a v2.1 electronic report.

Tables 2 through 5 define the specific computerized layout or "record structures" of the electronic reports, containing the following types of data: Quarterly Emission Data (Table 2), Monitoring Plan Data (Table 3), Certification-QA/QC Test Data (Table 4), and Compliance Certification Data (Table 5).

The record structures in Tables 2 through 5 define the order, length, and placement of information within the electronic report or "file" (i.e., the Record Type, Type Code, Start Column, Data Element Description, Units, Range, Length, and Fortran (FTN) Format for each data element in the electronic report). This information is used to construct electronic files to submit electronic reports to the U.S. Environmental Protection Agency.

In Tables 1 through 5, each record type that differs from the January 24, 2001 edition of EDR v2.1, by a change to an existing field, description or code has been marked as "(Modified)" next to the description in the Record Type column. Note that some of the changes are not visible in this EDR format document, because they involve new codes that are listed only in the accompanying EDR v 2.1 Instructions document.

6. Which EDR records are needed for which programs?

The Program Column in Tables 2 through 5 indicates the regulatory programs for which each record type may be applicable. "ARP" indicates Part 75 Acid Rain Program requirements, and "Subpart H" indicates the applicability of the record to a unit using the NO_x mass monitoring provisions in Subpart H of Part 75 (e.g., units covered by the NO_x Budget Trading Program). This designation includes Acid Rain units also subject to Subpart H.

7. How do I find out more about reporting using the EDR v2.1 format?

More detailed information on the selection of record types for reporting and the use of specific columns within a record type for a particular program is included in the "Revised EDR v2.1 Reporting Instructions" (March 2003). You can find these instructions on EPA's Clean Air Markets Division website at www.epa.gov/airmarkets/.

TABLE 1: EDR v2.1 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES		
GROUP	SUB-GROUP	RECORD TYPE	RECORD	
Facility Information		Facility Identification (Modified)	100	
(100)	Facility Information	Record Types Submitted (Optional)	101	
		Facility Location and Identification Information	102	
Monitoring Data		SO ₂ Concentration Data (Modified)	200	
(200)	Pollutant Gas Concentrations	NO _x Concentration Data (Modified)	201	
		CO ₂ Concentration Data (Modified)	202	
	Di i G G i i i	CO ₂ Diluent Concentration Data (Modified)	210	
	Diluent Gas Concentrations	O ₂ Diluent Concentration Data (Modified)	211	
	Moisture Data	Moisture Data (Modified)	212	
	Volumetric Flow	Volumetric Flow Data (Modified)	220	
	Daily Quality Assurance	Daily Calibration Test Data and Results	230	
	Data and Results	Flow Daily Interference Check Results	231	
	Hourly Pollutant and Diluent Concentration Data from RM Backup Analyzers			
	Reference Method Backup QA Data	Quality Assurance Run Data for Reference Method Analyzers or Systems Used as Backup CEMS	261	
		Reference Method Backup Flow Rate Monitor (Run Summary)	262	
Unit Data		Unit Operating Parameters	300	
(300)		Quarterly Cumulative Emissions Data	301	
		Oil Fuel Flow (Modified)	302	
	Unit Operating and Cumulative Emissions Data	Gas Fuel Flow (Modified)	303	
		Quarterly Heat Input From Long Term Fuel Flow Measurements for Qualifying Low Mass Emission Units	305	
		Cumulative NO _x Mass Emissions Data	307	
		SO ₂ Mass Emissions Data	310	
	SO ₂ Mass Emissions Data	SO ₂ Mass Emissions Alternative Estimation Parameters for Oil (Modified)	313	
		SO ₂ Mass Emissions Alternative Estimation Parameters for Natural Gas (Modified)	314	
		NO _x Emission Rate Data (Modified)	320	
		NO _x Emission Rate Alternative Estimation Parameters for Oil and Gas (Modified)	323	
	NO _x Emissions Data	NO _x Emission Rate Estimation Based on Appendix E (Modified)	324	
		NO_{x} Emission Rate Estimation Based on Appendix E for Multiple Fuel Hours	325	
		NO _x Mass Emissions	328	

TABLE 1: EDR v2.1 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Unit Data	G0.14 F	CO ₂ Mass Emissions Data	330
(300)	CO ₂ Mass Emissions Data	CO ₂ Mass Emissions Estimation Parameters	331
	Qualifying Low Mass Emissions Unit Data	Hourly Emissions Data for Qualifying Low Mass Emissions Units	360
Monitoring Plan		Stack/Pipe Header Definition Table	503
Information (500)		Unit Information	504
		Program Indicator for Report (Modified)	505
		EIA Cross Reference Information (Modified)	506
		Fuel Usage Data to Qualify as a Peaking Unit or an Acid Rain Program Gas-fired Unit	507
		Subpart H Reporting Frequency Change	508
		Monitoring Systems/Analytical Components Table (Modified)	510
		Formula Table (Modified)	520
		Span Table (Modified)	530
		Maximums, Minimums, Defaults and Constants (Modified)	531
		Unit and Stack Operating Load Data (Modified)	535
		Range of Operation, Normal Load, and Load Usage	536
		Fuel Flowmeter Data (Modified)	540
		Reasons for Monitoring System Downtime or Missing Parameter (Optional)	550
		Monitoring System Recertification, Maintenance, or Other Events	556
		Appendix E NO _x Correlation Curve Segments (Modified)	560
		Monitoring Methodology Information (Modified)	585
		Control Equipment Information (Modified)	586
		Unit Fuel Type (Modified)	587
Certification Test	Calibration/Error Tests	7-Day Calibration Error Test Data and Results	600
Data (600)	Linearite Charles	Linearity Check Data	601
	Linearity Checks	Linearity Check Results	602
	Leak Checks	Flow Leak Check Results	603
	Flow/Load Checks	Reference Data for Flow-to-Load Ratio or Gross Heat Rate Evaluation	605
		Quarterly Flow-to-Load Ratio or Gross Heat Rate Check	606

TABLE 1: EDR v2.1 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Certification Test		RATA and Bias Test Data	610
Data (600)		RATA and Bias Test Results (Modified)	611
	RATA/Bias Tests	Reference Method Supporting Data for Flow RATA Tests	614
		Reference Method Supporting Data for Flow RATA Tests)	615
		Reference Method Supporting Data for Flow RATA Tests	616
	Cycle Time Test	Cycle Time Test Data and Results	621
	On Line/Off Line Calibration Demonstration	Qualifying Test for Off-line Calibration Error Tests	623
	Miscellaneous QA Test/Activity	Other QA Activities (Modified)	624
	Fuel Flowmeter Accuracy	Fuel Flowmeter Accuracy Test (Modified)	627
	Tests	Accuracy Test for Orifice, Nozzle, or Venturi Type Fuel Flowmeters	628
	Quarterly Fuel Flow-to-Load	Baseline Data for Fuel-Flow-to-Load Ratio or Gross Heat Rate Check for Fuel Flowmeters (Modified)	629
	Analysis	Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified)	630
	Ale de Maria de	Alternative Monitoring System Approval Petition Data	640
	Alternative Monitoring Petition Data	Alternative Monitoring System Approval Petition Results and Statistics	641
	LME Certification	Qualifying Data for Low Mass Emissions Units Excepted Methodology (Modified)	645
		NO _x Emission Rate Correlation Test Data (Modified)	650
		NO _x Emission Rate Correlation Results	651
	Appendix E Test Data	Heat Input from Oil Combusted During Test	652
		Heat Input from Gas Combusted During Test	653
		Unit Group Testing (Modified)	660
		Single-load Flow RATA Claim	695
	QA Test	Fuel Flowmeter Accuracy Test Extension	696
	Extensions/Exemption	RATA Deadline Extension or Exemption (Modified)	697
	Claims	Quarterly QA Test Exemption Claim	698
		QA Test Extension Claim Based on Grace Period	699

TABLE 1: EDR v2.1 ELECTRONIC DATA REPORTING RECORD TYPES

RECORD TYPES										
GROUP	SUB-GROUP	RECORD TYPE	RECORD							
Certification Data (900)		Part 75 Certification Statement and Designated Representative Signature	900							
		Part 72 Certification Statement	901							
		Cover Letter Text (file specific) (Optional)	910							
	Certification Data	Cover Letter Text (not specific to file) (Optional)	920							
		Subpart H Certification Statement and NO _x Authorized Account Representative Signature	940							
		Subpart H General Certification Statement	941							
		Contact Person Record (Optional)	999							

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			FACILITY INFORMAT	ION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			FACILITY INFORMATION	1				
Facility Identification	100	1	Record type code				3	I3
		4	Facility/ORISPL number				6	I6
(Modified)		10	Calendar quarter data contained in report			1-4	1	I1
(Modifica)		11	Calendar year data contained in report		YYYY	≥1993	4	I4
		15	EDR version			V2.1	5	A5
					Total Record	d Length	19	
Record Types	101	1	Record type code				3	I3
Submitted		4	Unit ID				6	A6
(Optional)		10	Stack/Pipe ID				6	A6
(-1	ļ	16	Parameter reported ¹	ļ			7	A7
		23	Record type used				3	I3
		26	Number of records			1-9999	4	I4
					Total Record	d Length	29	
Facility Location and	102	1	Record type code				3	I3
Identification Information		4	Plant name				20	A20
mormation		24	[Reserved]				12	
		36	EPA AIRS facility system (AFS) ID				10	A10
		46	State facility ID				15	A15
		61	Source category/type				20	A20
		81	Primary SIC code				4	I4
		85	State postal abbreviation				2	A2
		87	County code (FIPS)				3	I3
		90	[Reserved]				1	
		91	Latitude		DDMMSS		6	I6
		97	Longitude		DDDMMSS		7	I7
					Total Record	d Length	103	

Available codes are: CO2CONC, CO2MASS, DILUENT, FLOWRTE, GASRATE, HEATINP, LOWMASS, MOISTUR, NOXCONC, NOXMASS, NOXRATE, OILRATE, OPERATN, OSNSUMM, QTRSUMM, SO2CONC, SO2MASS

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			POLLUTANT GAS CONCENTR.	ATIONS	•	•	•	•
SO ₂ Concentration	200	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(Wodified)		13	Monitoring system ID				3	A3
ARP only		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Percent monitor data availability for SO ₂		%	0.0-100.0	5	F5.1
		29	Average SO ₂ concentration for the hour		ppm		6	F6.1
		35	Average SO ₂ concentration for the hour adjusted for bias		ppm		6	F6.1
		41	Method of determination code			01-10,12, 16,17,19, 20,21,22,23, 54,55	2	I2
			I.		Total Reco	· ·	42	
NO _x Concentration	201	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(M-4:C-4)		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	12
		24	Average NO_x concentration for the hour		ppm	00 23	6	F6.1
		30	Method of determination code		FF	01-04, 06-12, 17, 19, 20, 21, 22, 23, 54, 55	2	I2
		32	Adjusted average NO_x concentration for the hour		ppm		6	F6.1
		38	Percent monitor data availability for NO _x concentration		%	0.0-100.0	5	F5.1
		ı	1	1	Total Reco	ord Length	42	1
CO ₂ Concentration	202	1	Record type code				3	13
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
ARP Only		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	12
		24	Average CO ₂ concentration for the hour		%		6	F6.1
		30	Method of determination code			01-04, 06-10, 12, 17, 20, 54, 55	2	12
		32	Percent monitor data availability for CO ₂ concentration		%	0.0-100.0	5	F5.1
					Total Reco	ord Length	36	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	4				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			DILUENT GAS CONCENTRAT	IONS			•	•
CO ₂ Diluent	210	1	Record type code				3	I3
Concentration Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average CO ₂ concentration for the hour		%	0.0-100.0	5	F5.1
		29	Method of determination code			01-04, 06-10, 12, 17, 20, 54, 55	2	I2
		31	Percent monitor data availability for CO ₂ concentration		%	0.0-100.0	5	F5.1
0.5"	24:				Total Reco	ord Length	35	
O ₂ Diluent Concentration Data	211	1	Record type code				3	I3
Concentration Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average O ₂ concentration for the hour		%	0.0-100.0	5	F5.1
		29	Method of determination code			01-04, 06-10, 12, 17, 20, 54, 55	2	I2
		31	Moisture basis of measurement (W-wet or D-dry (for O ₂ used for moisture calculations), Blank (for O ₂ used only for diluent purposes))			W,D	1	A1
		32	Percent monitor data availability for O ₂ concentration		%	0.0-100.0	5	F5.1
					Total Reco	ord Length	36	
		1	MOISTURE DATA	1			1	ı
Moisture Data	212	1	Record type code				3	I3
(Modified)		4	Unit/Stack ID				6	A6
(10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
	-	22	Hour		НН	00-23	2	I2
		24	Average moisture content of flue gases for the hour		%H2O	0.0-100.0	5	F5.1
		29	Formula ID			0	3	A3
		32	Method of determination code			01-04, 06-10, 12, 21, 54, 55	2	I2
		34	Percent monitor data availability for moisture		%	0.0-100.0	5	F5.1
					Total Reco	ord Length	38	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			VOLUMETRIC FLOW					
Volumetric Flow Data	220	1	Record type code				3	I3
04 15 1		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID	ļ			3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Percent monitor data availability for volumetric flow		%	0.0-100.0	5	F5.1
		29	Average volumetric flow rate for the hour		scfh		10	I10
		39	Average volumetric flow rate for the hour adjusted for bias		scfh		10	I10
		49	[Reserved]				5	
		54	Operating load range corresponding to gross load			01-20	2	I2
		56	Method of determination code			01-12, 20, 54, 55	2	12
					Total Reco	ord Length	57	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			DAILY QUALITY ASSURANCE DATA	AND RESUL	TS			
Daily Calibration Test	230	1	Record type code				3	I3
Data and Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	12
		24	Instrument span ²				13	F13.3
		37	Reference value ²				13	F13.3
		50	Measured value ²				13	F13.3
		63	Results (calibration error or R-A)		%,ppm	0.0-100.0	5	F5.1
		68	Alternative performance specification (APS) flag ³			0,1	1	I1
		69	[Reserved]				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
					Total Reco	ord Length	72	l
Flow Daily	231	1	Record type code				3	I3
Interference Check		4	Unit/Stack ID				6	A6
Results		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	12
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	[Reserved]				2	
	<u> </u>	•		•	Total Reco	ord Length	26	•
	1	1	REFERENCE METHOD BACKUP	QA DATA		,	1	1
Hourly Pollutant and	260	1	Record type code				3	13
Diluent Concentration Data from RM Backup		4	Unit/Stack ID				6	A6
Analyzers		10	Reference method component ID				3	A3
,		13	Reference method monitoring system ID				3	A3
		16	Parameter monitored (SO2, NOX, CO2, O2)	ļ			4	A4
		20	Run number				2	12
		22	Date		YYMMDD		6	I6
		28	Hour		НН	00-23	2	12
		30	Unadjusted (raw) average pollutant or diluent concentration for the hour		%, ppm		7	F7.2
		37	Adjusted average pollutant or diluent concentration for the hour		%, ppm		7	F7.2
					Total Reco	ord Length	43	

Report span, reference values, and measured values in calibration span units defined in RT 530, column 62.

If an alternative performance specification (|R-A|) is used for SO_2 or NO_x low emitters or for low-span DP-type flow monitors, according to section 3 of Appendix A to Part 75, a 1 is reported; a zero is reported otherwise. For CO_2 or O_2 |R-A| is the normal calculation method; therefore, a 0 (zero) should always be reported for CO_2 and O_2 and there is no alternative specification.

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	`A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Quality Assurance Run	261	1	Record type code				3	I3
Data for Reference		4	Unit/Stack ID				6	A6
Method Analyzers or Systems Used as		10	Reference method component ID				3	A3
Backup CEMS		13	Reference method monitoring system ID				3	A3
		16	Run number				2	I2
		18	RM run start date		YYMMDD		6	I6
		24	RM run start hour		НН	00-23	2	I2
		26	RM run end date		YYMMDD		6	I6
		32	Rm run end hour		НН	00-23	2	I2
		34	Type of analyzer/system			EXT, DIL	3	A3
		37	Moisture basis of RM analysis			WET, DRY	3	A3
		40	Instrument span (as defined in App A, Part 60)				5	15
		45	Dilution factor				5	I5
		50	Reference zero gas concentration				7	F7.2
		57	Initial (pre-test) calibration responsezero gas				7	F7.2
		64	Pre-test calibration errorzero gas (% of span)		%		5	F5.1
		69	Reference mid-level gas concentration				7	F7.2
		76	Initial (pre-test) calibration responsemid gas				7	F7.2
		83	Pre-test calibration errormid gas (% of span)		%		5	F5.1
		88	Reference high-level gas concentration				7	F7.2
		95	Initial (pre-test) calibration responsehigh				7	F7.2
		102	Pre-test calibration errorhigh gas (% of span)		%		5	F5.1
		107	Upscale gas used during run (M-mid, H-high)			M,H	1	A1
		108	Pre-run system responsezero gas				7	F7.2
			Pre-run system bias (non-dilution) or					
		115	calibration error (dilution)zero gas (% of span)		%		5	F5.1
		120	Post-run system responsezero gas				7	F7.2
		127	Post-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)		%		5	F5.1
		132	Pre-run system responseupscale gas				7	F7.2
		139	Pre-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		144	Post-run system responseupscale gas				7	F7.2
		151	Post-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		156	Zero drift (% of span)		%		5	F5.1
		161	Calibration drift (% of span)		%		5	F5.1
		166	Stack gas density adjustment factor				5	F5.3
					Total Reco	ord Length	170	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	\				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Reference Method	262	1	Record type code				3	I3
Backup Flow Rate		4	Unit/Stack ID				6	A6
Monitor (Run Summary)		10	Reference method component ID				3	A3
Summary)		13	Reference method monitoring system ID				3	A3
		16	Run date		YYMMDD		6	I6
		22	Run hour		НН	00-23	2	I2
		24	Number of traverse points				2	I2
		26	(Square root of ΔP) _{avg.}		in. H ₂ O		5	F5.2
		31	T _s , stack temperature		°F		4	I4
		35	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		40	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		45	% CO ₂ in stack gas, dry basis		%		5	F5.2
		50	% O2 in stack gas, dry basis		%		5	F5.2
		55	% moisture in stack gas		% H ₂ O		5	F5.2
		60	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		65	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		70	Pitot tube or probe coefficient				5	F5.3
		75	Date of latest pitot tube or probe calibration		YYMMDD		6	I6
		81	A _s , stack or duct cross-sectional area at test port		ft ²		6	F6.1
		87	Total volumetric flow rate		scfh		10	I10
		97	Average axial velocity		ft/sec		8	F8.3
		105	Reference method probe type				3	A3
					Total Reco	ord Length	107	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			UNIT OPERATING AND CUMULATIVE EN	MISSIONS I	DATA			
Unit Operating	300	1	Record type code				3	13
Parameters		4	Unit/Stack/Pipe ID				6	A6
		10	Date		YYMMDD		6	I6
		16	Hour		НН	00-23	2	I2
		18	Unit operating time			0.00-1.00	4	F4.2
		22	Gross unit load during unit operation		MWe		6	I6
		28	Steam load during unit operation		1000 lb/hr		6	I6
		34	Operating load range corresponding to gross load during unit operation			01-20	2	12
		36	Hourly heat input rate during unit operation for all fuels		mmBtu/hr		7	F7.1
		43	Heat input formula ID				3	A3
		46	F-factor for heat input calculation	CEMS Only			10	F10.1
		56	Use of diluent cap for heat input calculation for this hour (Y-cap used)	CEMS Only		Y	1	A1
		57	Total heat input for the hour	Optional	mmBtu		7	F7.1
					Total Reco	ord Length	63	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Quarterly Cumulative	301	1	Record type code				3	I3
Emissions Data		4	Unit/Stack/Pipe ID				6	A6
		10	Date of report generation		YYMMDD		6	I6
		16	Quarterly SO ₂ tons emitted		ton		10	F10.1
ARP Only		26	Cumulative annual SO ₂ tons emitted		ton		10	F10.1
		36	Quarterly average NO _x emission rate		lb/mmBtu		13	F13.3
		49	Cumulative annual average NO _x emission rate		lb/mmBtu		13	F13.3
		62	Quarterly CO ₂ tons emitted		ton		10	F10.1
		72	Cumulative annual CO ₂ tons emitted		ton		10	F10.1
		82	Quarterly total heat input		mmBtu		10	I10
		92	Cumulative annual total heat input		mmBtu		10	I10
		102	[Reserved]				6	
		108	[Reserved]				6	
		114	Quarterly unit/stack/pipe operating hours		hr		4	I4
		118	Cumulative annual unit/stack/pipe operating		hr		4	I4
			hours					
					Total Reco	ord Length	121	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			UNIT OPERATING AND CUMULATIVE EN	MISSIONS I	DATA			
Oil Fuel Flow	302	1	Record type code				3	I3
		4	Unit/Pipe ID				6	A6
		10	Monitoring system ID				3	A3
(Modified)		13	Date		YYMMDD		6	I6
(Modified)		19	Hour		НН	00-23	2	12
		21	Mass flow rate of oil during oil combustion		lb/hr		10	F10.1
		31	Source of data code for mass oil flow rate 4			0-6,9	1	I1
		32	Operating load range corresponding to gross load			01-20	2	12
		34	Gross calorific value (GCV) of oil				10	F10.1
		44	[Reserved]				1	
		45	Heat input rate from oil during oil combustion		mmBtu/hr		7	F7.1
		52	Fuel usage time			0.01-1.00	4	F4.2
		56	Type of oil ⁵				3	A3
		59	Volumetric flow rate of oil during oil combustion				10	F10.1
		69	Units of measure for volumetric oil flow rate ⁶				5	A5
		74	Source of data code for volumetric oil flow rate ⁴			0,1,3,5,6,9	1	I1
		75	Density of oil				8	F8.5
		83	Units of measure for density of oil 6				5	A5
		88	[Reserved]				1	
		88	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			M,S	1	A1
		90	Type of oil sampling and GCV value used in calculations ⁷				2	12
		92	Type of oil sampling and density value used in calculations ⁷				2	12
	•		•		Total Record L	ength	93	•

^{0 =} Measured data (using a mass flowmeter)

6 Limited to a Table of Codes: VOLUMETRIC OIL FLOW: SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr), M3HR (m³/hr) DENSITY: LBSCF (lb/scf); LBGAL (lb/gal); LBBBL (lb/barrel), LBM3 (lb/m³)

- 0 = Actual measured value from daily manual sample
- 1 = Actual measured value from flow proportional/weekly composite sample
- 2 = Actual measured value from oil tank sample
- 4 = Highest sampled value in previous calendar year from oil tank sampling (or a higher sampled value, superseding the assumed value)
- 5 = Highest sampled value in previous calendar year from as delivered sample (or a higher sampled value, superseding the assumed value)
- 6 = Maximum value allowed by contract (or a higher oil tank sample value, superseding the assumed value)
- 7 = Maximum value allowed by contract (only if higher than measured oil as delivered sample)
- 8 = Maximum potential value from Table D-6 for missing data or emergency fuel
- 10 = Highest sampled value in previous 30 days

^{1 =} Substitute data using lookback procedures

^{2 =} Mass flowrate derived from volumetric measurement (Column 31 only)

^{3 =} Maximum fuel flow rate (simplified missing data procedure for peaking units)

^{4 =} Emergency fuel (maximum unit fuel flow rate) (Column 31 only)

^{5 =} Ignitor oil from tank measurements

^{6 =} Uncertified OFFM to measure ignitor oil

^{9 =} Default minimum fuel flow rate

See instructions for allowable codes.

Type of oil sampling and value used:

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA							
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)		
	UNIT OPERATING AND CUMULATIVE EMISSIONS DATA									
Gas Fuel Flow	303	1	Record type code				3	I3		
		4	Unit/Pipe ID				6	A6		
		10	Monitoring system ID	ļ			3	A3		
(Modified)		13	Date		YYMMDD		6	I6		
		19	Hour		НН	00-23	2	I2		
		21	Flow rate of gas during gas combustion		100 scfh		10	F10.1		
		31	Source of data code for gas flow rate 8			0-4	1	I1		
		32	Operating load range corresponding to gross load			01-20	2	12		
		34	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1		
		44	[Reserved]				1			
		45	Heat input rate from gas during gas combustion		mmBtu/hr		7	F7.1		
		52	Fuel usage time			0.01-1.00	4	F4.2		
		56	Type of gas ⁵				3	A3		
		59	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single fuel)			M,S	1	A1		
		60	Type of gas sampling and GCV value used in calculations ⁹			0-2,4-8,10	2	12		
					Total Reco	ord Length	61			

^{8 0} Hourly Measurement

- 1 Substitute Data Using Lookback Procedures
- 2 Default Minimum Fuel Flow Rate
- 3 Maximum Unit Fuel Flow Rate (simplified missing data procedure for peaking units)
- Emergency Fuel (maximum unit fuel flow rate)
- 9 O Actual Measured GCV From Most Recent Monthly Sampling
 - 1 Highest of All Sampled Values in Previous Calendar Year (or a higher sampled value, superseding the assumed value)
 - 2 Maximum Value Allowed by Contract ((or a higher sampled value, superseding the assumed value)
 - 4 Actual Measured GCV From Continuous (hourly) Sampling
 - 5 Gas Fuel in Lots, as Delivered Sampling: Highest of All Sampled Values in Previous Calendar Year (or a higher sampled value, superseding the assumed value)
 - 6 Gas Fuel in Lots, as Delivered Sampling: Maximum Value Allowed by Contract (or a higher sampled value, superseding the assumed value)
 - 7 Actual Measured GCV From Daily Sampling
 - 8 Missing Data Based on Table D-6 Default
 - 10 Actual GCV From Most Recent Shipment or Lot

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	UNIT DATA											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
Quarterly Heat Input	305	1	Record type code				3	I3				
From Long Term Fuel		4	Unit/Pipe ID				6	A6				
Flow Measurements for Qualifying Low Mass		10	Monitoring system ID				3	A3				
Emission Units		13	Type of fuel ⁵				3	A3				
		16	Quarter or reporting period			1-4, 2A,2S	2	A2				
		18	Year		YYYY		4	I4				
		22	Quarterly or reporting period fuel flow				10	I10				
		32	Units of measure for fuel flow 10				5	A5				
		37	Gross calorific value				10	F10.1				
		47	Gross calorific value units of measure 11				8	A8				
		55	Total heat input		mmBtu		10	I10				
			Total Record Length 64									

Limited to a table of codes: LB, SCF, GAL

Limited to a table of codes: BTU/LB, BTU/SCF, BTU/GAL

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			UNIT OPERATING AND CUMULATIVE EM	IISSIONS I	DATA			
Cumulative	307	1	Record type code				3	13
NO _x Mass Emissions Data		4	Unit/Stack/Pipe ID				6	A6
		10	Date of report generation		YYYYMMDD		8	I8
		18	Reporting period NO _x tons emitted		ton		10	F10.1
ARP LME and Subpart H Only		28	Cumulative ozone season NO _x tons emitted		ton		10	F10.1
		38	Reporting period heat input		mmBtu		10	F10.1
		48	Cumulative ozone season heat input		mmBtu		10	F10.1
		58	Total reporting period operating hours		hr		4	I4
		62	Cumulative ozone season operating hours		hr		5	15
		67	Cumulative annual NO _x tons emitted		ton		10	F10.1
		77	Cumulative annual total heat input	Subpart H only	mmBtu		10	I10
		87	Cumulative annual unit/stack/pipe operating hours	Subpart H only	hr		4	I4
		l .		ı	Total Reco	ord Length	90	
			SO2 MASS EMISSIONS DAT	A				
SO ₂ Mass Emissions	310	1	Record type code				3	13
Data		4	Unit/Stack ID				6	A6
		10	Date		YYMMDD		6	I6
ARP Only		16	Hour		НН	00-23	2	12
		18	SO ₂ mass emission rate for the hour		lb/hr		7	F7.1
		25	SO ₂ mass emission rate during unit operation based on adjusted values		lb/hr		7	F7.1
		32	Formula ID from monitoring plan for hourly SO ₂ emissions				3	A3
		35	Total SO ₂ mass emissions for the hour	Optional	lb		7	F7.1
					Total Record I	Length	41	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

RECORD TYPE START DATA ELEMENT DESCRIPTION FIELD NOTES NANGE LENCTH FORMAT (FIN)				UNIT DATA					
SO, Mass Emissions Alternative Estimation Parameters for Oil Paramet				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	
Alternative Estimation Parameters for Oil (Modified)				SO2 MASS EMISSIONS DAT	'A				
Parameters for Oil		313	1	Record type code				3	13
13 Date YYMMDD 6 16 16 16 17 17 19 19 19 19 19 19			4	Unit/Pipe ID				6	A6
ARP Only 19 Hour	(Modified)		10	Monitoring system ID				3	A3
21 Sulfur content of oil sample used to calculate % .01-5.0 5 F5.2			13	Date		YYMMDD		6	I6
SO, mass emission rate 26 [Reserved] 29 [Reserved] 30 SO, mass emission rate from oil during oil combustion 37 Total SO, mass emissions from oil Optional Ib	ARP Only		19	Hour		НН	00-23	2	12
29 [Reserved] 30 SO, mass emission rate from oil during oil combustion 1b/hr 7 F7.1			21			%	.01-5.0	5	F5.2
30 SO ₂ mass emission rate from oil during oil combustion 37 Total SO ₂ mass emissions from oil Optional lb 7 F7.1			26	[Reserved]				3	
Combustion 37 Total SO ₂ mass emissions from oil Optional 1b 7 F7.1			29	[Reserved]				1	
A4			30	2		lb/hr		7	F7.1
Calculations 12 Total Record Length 45			37	Total SO ₂ mass emissions from oil	Optional	1b		7	F7.1
SO, Mass Emissions Alternative Estimation Parameters for Gas			44	Type of sulfur sampling and value used in calculations ¹²			1-9	2	12
Alternative Estimation Parameters for Gas (Modified) ARP Only 10 Monitoring system ID 3 A3 A3						Total Reco	ord Length	45	
Parameters for Gas 4		314	1	Record type code				3	13
13 Date YYMMDD 6 16 19 Hour HH 00-23 2 12 21 Sulfur content of gas sample used to calculate SO ₂ mass emission rate 29 [Reserved] 1 30 Default SO ₂ emission rate 1b/mmBtu 7 F7.5 37 SO ₂ mass emission rate from gas during gas combustion 45 Total SO ₂ mass emissions from gas Optional 1b 7 F7.1 52 Type of sulfur sampling and value used in calculations 12 12 10 16 16 16 HH 00-23 2 12 11 7 F7.5 12 7 7 7 7 13 7 7 7 7 14 7 7 7 7 15 7 7 7 7 16 7 7 7 17 7 7 7 18 7 7 7 19 7 7 7 10 7 7 10 7 7 7 10 7 7 10 7 7 7 10 7 7 11 7 7 12 7 7 13 7 7 14 7 7 15 7 7 15 7 7 16 7 7 17 7 7 18 7 7 19 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10			4	Unit/Pipe ID				6	A6
19 Hour HH 00-23 2 12	(Modified)		10	Monitoring system ID				3	A3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ARP Only		13	Date		YYMMDD		6	I6
SO ₂ mass emission rate 29 [Reserved] 30 Default SO ₂ emission rate 10 lb/mmBtu 7 F7.5 37 SO ₂ mass emission rate from gas during gas combustion 45 Total SO ₂ mass emissions from gas Optional 1 lb/mmBtu 7 F7.5 8 F8.5 7 F7.1 52 Type of sulfur sampling and value used in calculations 12	Take only		19	Hour		НН	00-23	2	12
Default SO_2 emission rate SO_2 mass emission rate from gas during gas combustion SO_2 mass emissions from gas SO_2			21			-		8	F8.1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			29	[Reserved]				1	
combustion 45 Total SO_2 mass emissions from gas Optional lb 7 F7.1 52 Type of sulfur sampling and value used in calculations 12 Optional lb 0,3,5, 2 I2			30	Default SO ₂ emission rate		lb/mmBtu		7	F7.5
Type of sulfur sampling and value used in calculations ¹² Type of sulfur sampling and value used in 0,3,5, 2 I2 7-10			37			lb/hr		8	F8.5
calculations ¹² 7-10			45	Total SO ₂ mass emissions from gas	Optional	lb		7	F7.1
Total Record Length 53			52					2	I2
			<u>I</u>	1	<u> </u>	Total Reco	ord Length	53	I

¹² Type of data for sulfur content:

- 0 = Actual measured hourly average sample from GCH (gas)
- 1 = Actual measured value from oil composite sample
- 2 = Actual measured value from oil tank sample
- 3 = Highest daily sample in 30 daily samples (gas or oil)
- 4 = Highest sampled value in previous calendar year from oil tank sampling (or a higher sampled value, superseding the assumed value)
- 5 = Highest sampled value in previous calendar year from as delivered sample (gas or oil) (or a higher sampled value, superseding the assumed value)
- 6 = Maximum value allowed by contract (or a higher oil tank sample value, superseding the assumed value)
- 7 = Maximum value allowed by contract (or a higher sample value, superseding the assumed value)
- 8 = Maximum potential value from Table D-6 for oil or gas for missing data or emergency fuel
- 9 = Actual measured value from daily sample
- 10 = Actual measured value from most recent shipment or lot (gas)

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			NO _x EMISSIONS DATA					
NO _x Emission Rate	320	1	Record type code				3	13
Data		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	I6
(Modified)		19	Hour		НН	00-23	2	12
		21	Percent monitor data availability for NO _x emission rate calculations		%	0.0-100.0	5	F5.1
		26	F-factor converting NO _x concentrations to emission rates				10	F10.1
		36	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		42	Adjusted average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		48	Operating load range corresponding to gross load for the hour			01-10	2	12
		50	Formula ID from monitoring plan for hourly NO_x emission rate				3	A3
		53	Method of determination code			01-12, 14,21,22,23, 25,54,55	2	12
					Total Record		54	
NO _x Emission Rate	323	1	Record type code				3	I3
Alternative Estimation		4	Unit/Pipe ID				6	A6
Parameters for Oil and Gas		10	Monitoring system ID				3	A3
Gas		13	Date		YYMMDD		6	I6
	İ	19	Hour		НН	00-23	2	12
(Modified)		21	Parameters status flag (Y-in spec, N-out of spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point, E-Emergency Fuel, U-Uncontrolled)			Y,N,X, W,Z,E,U	1	A1
		22	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		28	[Reserved]				6	
		34	[Reserved]				6	
		40	Segment ID of correlation curve				3	A3
					Total Reco	ord Length	42	

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

NO, Emission Rate				UNIT DATA					
NO, Emission Rate Sale				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	FORMAT (FTN)
Estimation Based on Appendix E		_		NO _x EMISSIONS DATA					
Appendix E		324	1	Record type code				3	I3
(Modified) 10			4	Unit/Pipe ID				6	A6
Modified	**		10	NO _x monitoring system ID				3	A3
16 Date			13	Fuel flow monitoring system ID				3	A3
24 Parameters status flag (Y-in spec, N-out of spec, X, parameters data missing or invalid, W-operation above highest tested heat input point, Z-braneparery fisel, U-Uncontrolled)	(Modified)		16	Date		YYMMDD		6	I6
24 Parameters status flag (Y-in spec, N-out of spec, X, parameters data missing or invalid, W-operation above highest tested heat input point, Z-braneparery fisel, U-Uncontrolled)			22	Hour		НН	00-23	2	I2
Spec. X. parameters data missing or invalid, W-operation above highest tested heat input point, Z-bernation follow lowest feeted heat input point, Z-bernation follow lowest feeted heat input point, Z-bernation feet point input point, Z-bernation feet point input point, Z-bernation feet point point fuel type 42									A1
Field type 31 NO, mass emission rate for the hour for fue 1b/hr 11			24	spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point, E-Emergency fuel, U-					Al
1			25	_ "		lb/mmBtu		6	F6.3
A5 Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			31			lb/hr		11	F11.2
Combusted (M-multiple, S-single) Total Record Length 45			42	Segment ID of correlation curve				3	A3
NO, Emission Rate Estimation Based on Appendix E for Multiple Fuel Hours			45	1 2 2			M,S	1	A1
Estimation Based on Appendix E for Multiple Fuel Hours						Total Record l	Length	45	
Appendix E for Multiple Fuel Hours 4		325	1	Record type code				3	I3
10 Date 14 HH 00-23 2 18 Average NO _x emission rate for all fuels during multiple fuel hours 16 ImmBtu 6 ImmBtu 6 ImmBtu 17 ImmBtu 18 ImmBtu 19 ImmBtu			4	Unit/Pipe ID				6	A6
18	Multiple Fuel Hours	İ	10	Date		YYMMDD		6	I6
Multiple fuel hours Total Record Length 23			16	Hour		НН	00-23	2	I2
NO _x Mass Emissions 328 1 Record type code			18			lb/mmBtu		6	F6.3
A						Total Record l	Length	23	
Subpart H OnlyDateYYMMDD616HourHH $00-23$ 218Unit operating time $0.00-1.00$ 4122 NO_x mass emission rate during unit operationOptional $1b/hr$ 10F32Total NO_x mass emissions for the hour $1b$ 10 F42Formula ID from monitoring plan for total NO_x mass 3 3 45 NO_x methodology for the hour 5 10 3	NO _x Mass Emissions	328	1	Record type code				3	I3
16 Hour 18 Unit operating time 22 NO _x mass emission rate during unit operation 32 Total NO _x mass emissions for the hour 42 Formula ID from monitoring plan for total NO _x mass 45 NO _x methodology for the hour 16 HH 00-23 2 17 0.00-1.00 4 18 Unit operating time 19 Optional lb/hr 10 F 10 F 10 III III III III III III III III III I			4	Unit/Stack/Pipe ID				6	A6
Unit operating time $ \begin{array}{cccccccccccccccccccccccccccccccccc$	Subpart H Only		10	Date		YYMMDD		6	I6
22 NO _x mass emission rate during unit operation Optional lb/hr 10 F 32 Total NO _x mass emissions for the hour lb 10 F 42 Formula ID from monitoring plan for total NO _x mass $\frac{1}{2}$ NO _x methodology for the hour $\frac{1}{2}$ 10			16	Hour		НН	00-23	2	I2
		ļ	18	Unit operating time			0.00-1.00	4	F4.2
Formula ID from monitoring plan for total NO _x mass			22	NO _x mass emission rate during unit operation	Optional	lb/hr		10	F10.1
NO_x mass NO_x methodology for the hour 5 10			32	Total NO _x mass emissions for the hour		lb		10	F10.1
			42	NO _x mass				3	A3
55 Heat input rate methodology for the hour ⁵			45	NO _x methodology for the hour ⁵				10	A10
			55	Heat input rate methodology for the hour ⁵				10	A10

TABLE 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CO2 MASS EMISSIONS DA	TA				•
CO ₂ Mass Emissions	330	1	Record type code				3	I3
Data	İ	4	Unit/Stack/Pipe ID	İ			6	A6
		10	Date		YYMMDD		6	I6
ARP Only	j	16	Hour	İ	НН	00-23	2	12
		18	CO ₂ mass emission rate for the hour		ton/hr		10	F10.1
		28	Formula ID from monitoring plan for hourly CO ₂ mass emission rate				3	A3
		31	[Reserved]				2	
	j	33	Total CO ₂ mass emissions for the hour	Optional	ton		10	F10.1
		43	Use of diluent cap value for CO ₂ calculation for this hour (Y-cap used)	CEMS only		Y	1	A1
		1	1	1	Total Reco	ord Length	43	ı
CO ₂ Mass Emissions Estimation Parameters	331	1	Record type code				3	I3
ARP Only		4	Unit/Stack ID				6	A6
THE OMY	ļ	10	Date		YYMMDD		6	I6
		16	Total daily combustion-related CO ₂ mass emissions adjusted for CO ₂ retained in flyash		ton		10	F10.1
		26	Total daily sorbent-related CO ₂ mass emissions		ton		10	F10.1
		36	Total daily CO ₂ mass emissions		ton		10	F10.1
					Total Reco	ord Length	45	
Hourly Emissions Data	360	1	QUALIFYING LOW MASS EMISSION Record type code	S UNIT DAT	·A		3	I3
for Qualifying Low	300	4	Unit ID	-			6	A6
Mass Emissions Units		10	Date		YYMMDD		6	I6
		16	Hour		HH	00-23	2	I2
LME Only	ļ	18	Unit operating time ¹³		1111	0.0-1.00	4	F4.2
		22	Gross unit load during unit operation		MWe	0.0-1.00	6	I6
	ļ	28	Steam load		1000 lb/hr		6	I6
		34	Total hourly heat input (from all fuels)		mmBtu		7	F7.1
		41	Fuel type ¹⁴		minbtu		3	A3
		44	SO ₂ mass emissions	ARP only	lb		6	F6.1
		50	NO _x mass emissions		lb		6	F6.1
		56	CO ₂ mass emissions	ARP only	ton		9	F9.1
		65	Control status (C-controlled, U-uncontrolled)			C,U	1	A1
	İ	66	NO _x methodology for the hour ⁵				10	A10
		76	Heat input rate methodology for the hour ⁵				10	A10
	<u> </u>	<u>I</u>			Total Record I	Length	85	1

For LME units using long term fuel flow and reporting RT 305, report 1.00 for each hour in which any operation occurred.

¹⁴ See instructions for allowable codes. If multiple fuels are burned, report the fuel used to determine mass emissions (fuel with the highest SO_2 , CO_2 , and/or NO_x emission factor). See §§ 75.19(c)(3)(i), (4)(i), and (5)(i).

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Stack/Pipe Header	503	1	Record type code				3	I3
Definition Table		4	Stack/Pipe ID	j	j		6	A6
		10	Stack/Pipe description or name				20	A20
		30	Unit ID for associated unit	ĺ			6	A6
		36	[Reserved]				1	
		37	[Reserved]	ĺ			6	
		43	[Reserved]				6	
		49	Activation date		YYMMDD		6	I6
		55	Retirement date		YYMMDD		6	I6
		61	Bypass stack flag (B-bypass)			В	1	A1
		62	Stack exit height above ground level	ĺ	fit		4	I 4
		66	Ground level elevation above sea level		fit		5	I5
		71	Inside cross-sectional area at flue exit		ft ²		4	I 4
		75	Inside cross-sectional area at flow monitor location		ft²		4	I4
		•			Total Record	Length	78	•
Unit Information	504	1	Record type code				3	I3
		4	Unit ID				6	A6
		10	Unit type ⁵				3	A3
		13	Maximum hourly heat input capacity		mmBtu		7	F7.1
		20	Date of first commercial operation	ĺ	YYYYMMDD		8	I8
		28	Unit retirement date		YYYYMMDD		8	I8
		36	Stack exit height above ground level	ĺ	ft		4	I 4
		40	Ground level elevation above sea level		fi		5	I5
		45	Inside cross-sectional area at flue exit		ft²		4	I4
		49	Inside cross-sectional area at flow monitor location		ft ²		4	I 4
				•	Total Record	Length	52	•
Program Indicator	505	1	Record type code				3	I3
for Report		4	Unit ID				6	A6
(Modified)		10	Program/Reporting requirements for which EDR is submitted ¹⁵				10	A10
(Wodified)		20	Unit classification ⁵				2	A2
		22	Reporting frequency (OS-ozone season, Q-quarterly)			OS,Q	2	A2
		24	Program participation date		YYYYMMDD		8	I8
		32	State regulation code (per State instructions)	Subpart H only			10	A10
		42	State or local regulatory agency code (see instructions)	Subpart H only			4	A4
					Total Record	Length	45	
EIA Cross	506	1	Record type code				3	I3
Reference		4	Unit ID				6	A6
Information		10	Acid Rain Program or Subpart H monitoring		j		6	A6
(Modified)			location ID					
•		16	EIA boiler ID				5	A5
		21	EIA flue ID				5	A5
		26	EIA reporting year				4	I 4
		30	EIA reporting indicator (N-not reporting EIA forms)			N	1	A1
		31	[Reserved]				6	
		37	EIA facility number				6	I6
					Total Record	I Length	42	

Available codes are: ARP, , OTC-SUBH, SUBH,

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	MATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Usage Data	507	1	Record type code				3	I3
to Qualify as a		4	Unit ID				6	A6
Peaking Unit or an Acid Rain		10	Current calendar year or ozone season		YYYY		4	I4
Program Gas-		14	Ozone Season or Year 1		YYYY		4	I4
Fired Unit		18	Ozone Season or Year 1 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		19	Ozone Season or Year 1 % capacity for peaking units or % heat input for gaseous fuel		%	0.0-100.0	5	F5.1
		24	Ozone Season or Year 2		YYYY		4	I4
		28	Ozone Season or Year 2 type (P-projected, A-actual, D-operating data)	ĺ		P,A,D	1	A1
		29	Ozone Season or Year 2 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		34	Ozone Season or Year 3		YYYY		4	I4
		38	Ozone Season or Year 3 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		39	Ozone Season or Year 3 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		44	Three ozone season or year average annual capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		49	Type of qualification (GF-gas-fired unit, PK-peaking unit, SK-ozone season peaking unit)			GF,PK, SK	2	A2
		51	Method of qualifying as a peaking unit or as a gas- fired unit per § 72.2 ⁵				3	A3
	I.	I	* -	l	Total Record L	ength	53	
Subpart H	508	1	Record type code				3	I3
Reporting Frequency Change		4	Stack/Unit/Pipe ID				6	A6
Frequency Change		10	New reporting frequency (OS-ozone season only, Q-quarterly)			OS, Q	2	A2
		12	Begin date of new reporting frequency		YYYYMMDD		8	18
Subpart H Only		20	[Reserved]		ļ		8	
		28	[Reserved]				1	
		1		1	Total Record	Length	28	T
Monitoring	510	1	Record type code				3	I3
Systems/ Analytical		4	Unit/Stack/Pipe ID		<u> </u>		6	A6
Components		10	Component ID				3	A3
Table		13	Monitoring system ID				3	A3
(Modified)		16	Status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
(modified)		17	System parameter monitored ¹⁶				4	A4
		21	Primary/backup designation ¹⁷				2	A2
	[23	Component type code 18		<u> </u>		4	A4
		27	Sample acquisition method ⁵				3	A3
		30	Manufacturer Madal/accession				25	A25
	 	55	Model/version		! 		15	A15
		70 90	Serial number [Reserved]				20	A20
	 	96	[Reserved]		 		6 4]
		100	First date system reported data		YYYYMMDD		8	18
	1		*					
		108	Last date system reported data		YYYYMMDD		8	I8

Limited to a table of codes: System Parameter:

CO2, FLOW, GAS, H2O, LTGS, LTOL, NOX, NOXC, O2, OILM, OILV, OP, SO2

Limited to a table of codes: Primary/Backup Designation:

P-primary, B-regular non-redundant backup, DB-data backup, RB-redundant backup, RM-reference method backup, CI-certified monitor at control device inlet

Limited to a table of codes: Component Type:

BGFF, BOFF, CALR, CO2, CO2A, CO2H, CO2L, DAHS, DL, DP, FLC, FLOW, GCH, GFFM, H2O, NOX, NOXA, NOXH, NOXL, O2D, O2DA, O2DH, O2DL, O2W, O2WA, O2WD, O2WH, O2WL, OFFM, OP, PLC, PRB, PRES, SO2, SO2A, SO2H, SO2L, TANK, TEMP

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Formula Table	520	1	Record type code				3	I3
		4	Unit/Stack/Pipe ID				6	A6
(Modified)		10	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
		11	Formula ID				3	A3
		14	Parameter monitored ⁵				4	A4
		18	Formula code 5				5	A5
		23	Formula text				200	A200
					Total Record	d Length	222	
Span Table	530	1	Record type code				3	13
(Modified)		4	Unit/Stack ID				6	A6
		10	Parameter monitored ⁵				4	A4
		14	Scale (H-high, L-low)			H,L	1	A1
	15	Method for calculating MPC/MEC/MPF (F-formula, HD-historical data, PL-permit limit, OL-other limit, TR-test results, TB-table in Part 75, ME-manufacturer's estimate, GS-gas fired only)			F,HD, OL,PL, ME,TR, TB,GS	2	A2	
		17	MPC/MEC/MPF 19				13	F13.3
	j	30	Maximum potential NO _x emission rate		lb/mmBtu	Ì	6	F6.3
		36	Span value in units of daily calibration				13	F13.3
	j	49	Full scale range in units of daily calibration			Ì	13	F13.3
		62	Daily calibration units of measure 20				5	A5
	j	67	[Reserved]			j	1	
		68	Span effective date		YYMMDD		6	I 6
	İ	74	Span effective hour		НН	j	2	I2
		76	Span inactivation date		YYMMDD		6	I6
	İ	82	Span inactivation hour		НН	j	2	12
		84	Dual spans required (D-dual ranges required/installed, O-dual ranges required/use of optional default high range value elected) (Blank if not applicable)			D,O	1	A1
		85	Default high range value				5	15
		90	Flow rate span value in SCFH		scfh		9	19
	Ì	99	Flow rate full scale value in SCFH		scfh	ĺ	9	I9
	-	•		•	Total Record	d Length	107	-

Provide SO₂ and NO_x MPC/MEC in ppm, rounded to the nearest whole number. Provide CO₂ MPC in %. Provide flow maximum potential flowrate (MPF) in scfh.

For SO₂ and NO₃ use PPM. For CO₂ or O₂ use %. For flow use units corresponding to calibration as follows: ACFH, ACFM, AFPM, INH2O, KACFH, KACFM, KAFPM, KSCFH, KSCFM, KSFPM, MACFH, MSCFH, SCFM, SCFM, SFPM, AMSEC, SMSEC.

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFORMA	ATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Maximums,	531	1	Record type code				3	I3
Minimums, Defaults and		4	Unit/Stack/Pipe ID				6	A6
Constants		10	Parameter ⁵				4	A4
(Modified)		14	Value of default, maximum, minimum or constant				13	F13.3
		27	Units of measure ²¹				7	A7
		34	Purpose or intended use 5				3	A3
		37	Type of fuel ⁵				3	A3
		40	Indicator of use for controlled/uncontrolled hours (A-any hour, C-controlled, U-uncontrolled)			A,C,U	1	A1
		41	Source of value ⁵				4	A4
		45	Value effective date	İ	YYYYMMDD		8	I8
		53	Value effective hour		НН		2	I2
		55	Value no longer effective date		YYYYMMDD		8	I8
		63	Value no longer effective hour		НН		2	I2
		65	SO ₂ emission factor	ARP only	lb/mmBtu		6	F6.4
		I			Total Record	Length	70	
Unit and Stack	535	1	Record type code				3	I3
Operating Load Data	į	4	Unit/Stack/Pipe ID				6	A6
(Modified)		10	Load units (MW-MWe, ST-1000lb steam)			MW,ST	2	A2
	į	12	Maximum hourly gross load				6	I6
		18	[Reserved]				1	
		19	Exemption from multi-load flow RATAs (P-peaking unit, B-bypass stack, S-single load testing only, approved by EPA)			B,P,S	1	A1
			<u> </u>		Total Record	Length	19	
Range of	536	1	Record type code				3	I3
Operation Normal Load, and Load		4	Unit/Stack ID				6	A6
Usage		10	Upper boundary of range of operation		MWe, 1000lb/hr		6	I6
		16	Lower boundary of range of operation		MWe, 1000 lb/hr		6	I6
		22	Two most frequently-used load levels			L,M,H	3	A3
		25	Designated normal load			L,M,H	1	A1
		26	Second designated normal load	Optional		L,M,H	1	A1
		27	Date of historical load analysis (activation date)		YYYYMMDD		8	18
		35	Inactivation date		YYYYMMDD		8	18
					Total Record	Length	42	

Limited to a table of codes: %, %H2O, BBLHR, GALHR, HSCF, LBHR, LBMMBTU, M3HR, MMBTUHR, PPM, SCFH, TNMMBTU

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	MATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Flowmeter	540	1	Record type code				3	I3
Data		4	Unit/Pipe ID				6	A6
O. 1. 1. (1. 1)		10	Monitoring system ID				3	A3
(Modified)		13	Parameter monitored			GAS, LTGS, LTOL, OILM, OILV	4	A4
		17	Type of fuel ⁵				3	A3
		20	Maximum system fuel flow rate				10	F10.1
		30	Units of measure for maximum fuel flow rate 22				5	A5
		35	Source of maximum rate (URV-upper range value, UMX-unit max)			URV, UMX	3	A3
		38	Initial accuracy test method ⁵				11	A11
		49	[Reserved]				11	
		60	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
					Total Record	Length	60	
Reasons for	550	1	Record type code				3	I3
Monitoring System Downtime		4	Unit/Stack/Pipe ID				6	A6
or Missing Parameter		10	Parameter ⁵				4	A4
Parameter		14	Monitoring system ID				3	A3
(Optional)		17	Begin date	ļ	YYMMDD		6	I6
		23	Begin hour		НН	00-23	2	I2
		25	End date		YYMMDD		6	I6
		31	End hour		НН	00-23	2	I2
 		33	Missing data reason code 5	ļ		1-99	2	I2
		35	Missing data description ²³				75	A75
		110	Corrective action description				75	A75
Manitanina	556	1	December of the control of the contr		Total Record	Length	184	I3
Monitoring System	556	1 4	Record type code				3	
Re-certification, Maintenance,		10	Unit/Stack/Pipe ID Component ID				6	A6 A3
or Other		13	Monitoring system ID				3	A3
Events		16	Event code 5			1-999	3	I3
		19	Code for required test ⁵			1-99	2	12
İ		21	Date of event	ļ	YYYYMMDD	1 //	8	I8
		29	Hour of event		HH	00-23	2	12
		31	Beginning of conditionally valid period (probationary calibration error test) date		YYYYMMDD		8	I8
		39	Beginning of conditionally valid period (probationary calibration error test) hour		НН	00-23	2	I2
		41	Date that last test is successfully completed		YYYYMMDD		8	I8
		49	Hour that last test is successfully completed		НН	00-23	2	I2
		51	Indicator that conditionally valid data were reported at end of quarter			С	1	A1
		I		1	Total Record	Length	51	I

For volumetric flow meters for oil use SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr); M3HR (M³/hr). For mass of oil flow meters use LBHR. For gas flow meters use HSCF (for 100 scfh).

Optional field. Provide information if code does not adequately explain reason or event or if code 99 (OTHER) is used.

TABLE 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Appendix E NO _x	560	1	Record type code				3	I3
Correlation Curve Segments		4	Unit/Pipe ID	ļ			6	A6
Segments		10	Test date		YYYYMMDD		8	I8
		18	Test number				2	I2
(Modified)		20	Operating level			0-99	2	I2
		22	Segment ID				3	A3
		25	NO _x monitoring system ID	ļ			3	A3
		28	Heat input rate #1 (low)		mmBtu/hr		7	F7.1
		35	Heat input rate #2 (high)		mmBtu/hr		7	F7.1
		42	NO _x emission rate #1	ļ	lb/mmBtu		6	F6.3
		48	NO _x emission rate #2		lb/mmBtu		6	F6.3
		54	Type of fuel ⁵	ļ			3	A3
		57	[Reserved]				8	
					Total Record	l Length	64	
Monitoring	585	1	Record type code	ļ			3	I3
Methodology Information		4	Unit ID				6	A6
mormation	ļ	10	Parameter ⁵	ļ		ļ	4	A4
0.5 11.5 10		14	Monitoring methodology 5				10	A10
(Modified)		24	Type of fuel associated with methodology 5				3	A3
		27	Primary/secondary methodology indicator	ļ		P,S	1	A1
		28	Missing data approach for methodology 5				6	A6
	ļ	34	Methodology start date	ļ	YYYYMMDD	ļ	8	I8
		42	Methodology end date		YYYYMMDD		8	I8
			L		Total Record	l Length	49	T
Control Equipment	586	1	Record type code			<u> </u>	3	I3
Information		4	Unit ID				6	A6
	l i	10	Parameter (NOX, SO2, PART)	ļ		 	4	A4
(Modified)		14	Control equipment code ⁵				6	A6
		20	Primary/secondary controls indicator			P,S	1	A1
	ļ	21	Original installation (O-original)	ļ		О	1	A1
		22	Controls install date		YYYYMMDD		8	I8
		30	Controls optimization date	ļ	YYYYMMDD		8	I8
		38	Controls retirement date	<u> </u>	YYYYMMDD		8	I8
		46	Seasonal controls indicator (S-ozone season only)	Subpart H only		S	1	A1
	<u>'</u>	1	1	l	Total Record	l Length	46	1
Unit Fuel Type	587	1	Record type code			-	3	I3
M. P.C. 1		4	Unit ID				6	A6
(Modified)	İ	10	Fuel types combusted ⁵	ĺ		İ	3	A3
		13	Fuel type start date		YYYYMMDD		8	I8
	Ì	21	Fuel type end date	ĺ	YYYYMMDD		8	I8
		29	Primary/secondary/emergency/startup fuel indicator			E,I,P,S	1	A1
		30	Ozone season fuel switching flag (S-burned during ozone season for ozone control)	Subpart H only		S	1	A1
1		31	Demonstration method to qualify for monthly fuel sampling for GCV			GHS, GGC, GOC	3	A3
		34	Demonstration method to qualify for daily fuel sampling for %S	ARP only		SHS, SGC	3	A3
	1	•		•	Total Record Ler	ngth	36	•

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CALIBRATION/ERROR	TESTS				
7-Day	600	1	Record type code				3	I3
Calibration Error Test		4	Unit/Stack ID				6	A6
Data and		10	Component ID				3	A3
Results		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		HH	00-23	2	I2
		24	Instrument span				13	F13.3
		37	Reference value				13	F13.3
		50	Measured value		ļ		13	F13.3
		63	Results (calibration error or R-A)		%, ppm	0.0-100.0	5	F5.1
		68	Alternative performance specification (APS) flag			0,1	1	I1
		69	Reference signal or calibration gas level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		70	Span scale (H-high, L-low)			H,L	1	A1
		71	Test number				2	I2
		73	Reason for test (C-initial cert, D-diagnostic, R-recert)			C,D,R	2	A2
			R-receity		Total Reco	l ord Length	74	
			LINEARITY CHECK	KS				
Linearity	601	1	Record type code				3	I3
Check Data		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Time		HHMM	0000-2359	4	I 4
		26	Instrument span		ļ	ļ	13	F13.3
		39	Reference value				13	F13.3
		52	Measured value				13	F13.3
		65	Calibration gas level (Z-zero, L-low, M-mid, H-high)			Z,L,M,H	1	A1
		66	Span scale (H-high, L-low)		<u> </u>	H,L	1	A1
		67	Test number				2	I2
		69	Indicator of aborted test (A-aborted test)			A	1	A1
		1 .	I	I	Total Reco	ord Length	69	
Linearity Check	602	1	Record type code				3	I3
Results		4	Unit/Stack ID		 	 	6	A6
		10	Component ID				3	A3
	 	13	Monitoring system ID Date	[[VVAMADD	<u> </u> 	3	A3 I6
		16 22	Instrument span		YYMMDD		6	F13.3
	! !	35	Mean of reference values	<u> </u>	l I		13	F13.3
		48	Mean of measured values				13	F13.3 F13.3
	l İ	61	Results (linearity error or R-A)		%, ppm	0.0-100.0	5	F5.1
		66	Alternative performance specification (APS) flag		70, ppm	0.0-100.0	1	I1
		(7	3				4	
		67	[Reserved]				4	
		71	Calibration gas level (Z-zero, L-low, M-mid, H-high)			Z,L,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
		73	Test number				2	I2
		75	Reason for test (C-initial cert, D-diagnostic, R-recert, Q-QA, G-grace period QA)			C,D,R,Q, RG,RQ,G	2	A2
	1	•	-	1	Total Reco	l	76	1

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			LEAK CHECKS	•				
Flow Leak	603	1	Record type code				3	13
Check Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I 6
		22	Hour		НН	00-23	2	12
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	[Reserved]				4	
		29	Reason for test (D-diagnostic, Q-QA, G-grace period QA)			D,Q,G	2	A2
!		•		•	Total Reco	rd Length	30	
			FLOW/LOAD CHEC	KS				
Reference Data for	605	1	Record type code				3	13
Flow-to-		4	Unit/Stack ID				6	A6
Load Ratio or Gross		10	Monitoring system ID				3	A3
Heat Rate Evaluation		13	Reference flow RATA end date		YYYYMMDD		8	18
		21	Reference RATA end time		ННММ	0000-2359	4	I 4
		25	Test number				2	12
		27	Average gross unit load (MWe or Steam)		MWe, 1000 lb/hr steam		6	I 6
		33	Operating level (L-low, M-mid, H-high) (N-normal, for peaking units only)			L,M,H,N	1	A1
		34	Average reference method flow rate during reference flow RATA		scfh		10	I10
		44	Reference flow/load ratio				6	F6.2
		50	Average hourly heat input rate during RATA		mmBtu/hr		7	F7.1
		57	Reference gross heat rate (GHR) value		Btu/kw-hr, Btu/lb steam		6	I6
l		1			Total Reco	rd Length	62	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			FLOW/LOAD CHEC	CKS				
Quarterly	606	1	Record type code				3	I3
Flow-to- Load Ratio		4	Unit/Stack ID				6	A6
or Gross Heat Rate		10	Monitoring system ID				3	A3
Check		13	Calendar quarter and year		QYYYY		5	I5
		18	Test basis indicator (Q-flow-to-load ratio; H-gross heat rate)			Q,H	1	A1
		19	Bias adjusted flow rates used (Y,N)			Y,N	1	A1
		20	Average absolute % difference between reference ratio (or GHR) and hourly ratios (or GHR values), $E_{\rm f}$		%	0.0-100.0	5	F5.1
		25	Result (P-pass, F-fail, N-<168 hours within ± 10% of average load, E-<168 hours for data analysis after exempted hours removed)			P,F,N,E	1	A1
		26	Number of hours used in quarterly flow-to-load or GHR analysis		hrs		4	I 4
		30	Number of hours excluded for different type of fuel		hrs		4	I 4
		34	Number of hours excluded for load ramping up or down		hrs		4	I 4
		38	Number of hours excluded for scrubber bypass		hrs		4	I4
		42	Number of excluded hours preceding a normal load flow RATA		hrs		4	I 4
		46	Number of excluded hours preceding a successful diagnostic test, following a documented monitor repair, or following a major component replacement		hrs		4	I 4
		50	Number of hours excluded for flue gases discharging simultaneously through a main stack and bypass stack		hrs		4	I 4
•					Total Reco	ord Length	53	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	s				
RATA and Bias Test	610	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
		13	Run start date		YYMMDD		6	I6
		19	Run start time		HHMM	0000-2359	4	I4
		23	Run end date		YYMMDD		6	I 6
		29	Run end time		ННММ	0000-2359	4	I 4
		33	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ 6-mmBtu/hr (OTC NBP only), 7-%H ₂ 0)			1-7	1	11
		34	Value from CEM system being tested				13	F13.3
		47	Value from reference method, adjusted as necessary for moisture and/or calibration bias				13	F13.3
		60	Run number				2	I2
		62	RATA run status flag 0 - RATA used, run not used 1 - run data used in calculating relative accuracy and bias 9 - test aborted			0,1,9	1	II
		63	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1
		64	Gross unit load		MWe, 1000 lbs/hr		6	I6
		70	Test number				2	I2
					Total Reco	ord Length	71	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
RATA and	611	1	Record type code				3	13
Bias Test Results	j	4	Unit/Stack ID	į		į	6	A6
(Modified)		10	Monitoring system ID				3	A3
	Ì	13	RATA end date		YYMMDD		6	I6
		19	RATA end time		ННММ	0000-2359	4	I 4
	j	23	Reference method used ⁵	į		į	11	A11
		34	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ ,5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ 0)			1-7	1	I1
		35	Arithmetic mean of CEMS values				13	F13.3
	Ì	48	Arithmetic mean of reference method values				13	F13.3
		61	Arithmetic mean of the difference data				13	F13.3
	ĺ	74	Standard deviation of difference data				13	F13.3
		87	Confidence coefficient				13	F13.3
	ĺ	100	Relative accuracy				5	F5.2
		105	Tabulated t- value (bias test)				6	F6.3
	į	111	Bias adjustment factor at this load level				5	F5.3
		116	Operating level (L-low, M-mid, H-high) (Use N-normal, for peaking units only)			L,M,H,N	1	A1
		117	Average gross unit load (MWe or steam)		MWe, 1000 lbs/hr		6	I6
		123	[Reserved]				4	
		127	Indication of normal load (N-normal, otherwise, blank)			N	1	A1
		128	Alternative performance specification (APS) flag ⁶			0,1	1	I1
		129	Test number				2	12
		131	Reason for RATA (C-initial cert, D-diagnostic, R-recert, Q-QA, G-grace period QA)			C,D,R,Q, RQ,G,QD	2	A2
		133	Number of load levels comprising test (1 for gas RATAs, 1-3 for flow or heat input RATAs)			1-3	1	I 1
		134	System bias adjustment factor for a multiple load flow RATA				5	F5.3
					Total Reco	ord Length	138	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		1	RATA/BIAS TESTS	S			_	
Reference Method	614	1	Record type code				3	13
Supporting Data for		4	Unit/Stack ID				6	A6
Flow RATA		10	Monitoring system ID				3	A3
Tests		13	Test number				2	12
(Methods 2, 2F, 2G, and		15	Operating level			H,M,L,N	1	A1
2H)		16	Run number				2	12
Run Level Data		18	Run start date		YYYYMMDD		8	18
Data		26	Run start time		ННММ	0000-2359	4	I4
		30	Run end date		YYYYMMDD		8	18
		38	Run end time		ННММ	0000-2359	4	I4
		42	Flow rate reference method(s) used ⁵			2F,2G, 2FH,2GH, M2H	3	A3
		45	Number of traverse points				2	12
		47	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		52	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		57	% CO ₂ in stack gas, dry basis		%		5	F5.1
		62	% O ₂ in stack gas, dry basis		%		5	F5.1
		67	CO ₂ and O ₂ reference method			3,3A	4	A4
		71	% moisture in stack gas		%H ₂ O		5	F5.1
		76	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		81	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		86	Stack diameter at test port location		fi		5	F5.2
		91	A _s , stack or duct cross-sectional area at test port		ft. ²		6	F6.1
		97	v _s , Average velocity for run, not accounting for wall effects		ft/sec		6	F6.2
		103	v_s , Average velocity for run, accounting for wall effects		ft/sec		6	F6.2
		109	Calculated wall effects adjustment factor (WAF) derived from this test run				6	F6.4
		115	Calculated WAF applied to all runs of this RATA			≥0.9700	6	F6.4
		121	Default WAF applied to all runs of this RATA			0.9900, 0.9950	6	F6.4
		127	Average stack flow rate, wet basis, adjusted if applicable for wall effects		scfh		10	I10
					Total Reco	rd Length	136	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
Reference	615	1	Record type code				3	13
Method Supporting		4	Unit/Stack ID				6	A6
Data for Flow RATA		10	Monitoring system ID				3	A3
Tests		13	Test number				2	12
(Methods 2, 2F, 2G, and		15	Operating level			L,M,H,N	1	A1
2H)		16	Run number				2	12
Traverse Point Level Data		18	Reference method probe type			S,P,AS, DA, DAT,SPH	4	A4
		22	Probe ID				11	A11
		33	Pressure measurement device type			MN,MG, ET	2	A2
		35	Method 1 traverse point ID				3	A3
		38	Probe or pitot tube velocity calibration coefficient				5	F5.3
		43	Date of latest probe or pitot tube calibration		YYYYMMDD		8	18
		51	Average velocity differential pressure at traverse point		in. H ₂ O		5	F5.3
		56	Average of square roots of velocity differential pressures at traverse point		(in H ₂ O) ^{1/2}		5	F5.3
		61	T _s , stack temperature at traverse point		°F		5	F5.1
		66	Exterior Method 1 traverse point identifier			W	1	A1
		67	Number of wall effects measurement points used to derive replacement velocity				2	12
		69	Yaw angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		75	Pitch angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		81	Calculated velocity at traverse point, not accounting for wall effects		ft/sec		6	F6.2
		87	Replacement velocity at traverse point, accounting for wall effects		ft/sec		6	F6.2
-		•			Total Reco	rd Length	92	
Reference Mathod	616	1	Record type code				3	13
Method Supporting		4	Unit/Stack ID				6	A6
Data for Flow		10	Monitoring system ID				3	A3
RATA Tests		13	Test number				2	12
(Method 2 and 2H,		15	Operating level		L,M,H,N		1	A1
default WAF only)		16	RATA end date		YYYYMMDD		8	I8
5/		24	RATA end time		ННММ	0000-2359	4	I4
		28	Default wall effects adjustment factor used			0.9900, 0.9950	6	F6.4
					Total Reco	rd Length	33	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CYCLE TIME TES	ST				
Cycle Time	621	1	Record type code				3	I3
Test Data and Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Start time		ННММ	0000-2359	4	I4
		26	End time		ННММ	0000-2359	4	I 4
		30	Component cycle time		min		2	I2
		32	Stable starting monitor value				13	F13.3
		45	Stable ending monitor value				13	F13.3
		58	Calibration gas value				13	F13.3
		71	Calibration gas level (Z-zero, H-high)			Z,H	1	A1
		72	Total or system cycle time ²⁴		min		2	I2
		74	Reason for test (C-initial cert, D-diagnostic, R-recert)			C,D,R	2	A2
		76	Test number				2	I2
!			1	I.	Total Reco	rd Length	77	
			ON LINE/OFF LINE CALIBRATION	DEMONST	RATION			
Qualifying	623	1	Record type code				3	I3
Test for Off- line		4	Unit/Stack ID				6	A6
Calibration Error Tests		10	Component ID				3	A3
Lifor Tests		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span				13	F13.3
		37	Reference value				13	F13.3
		50	Measured value				13	F13.3
		63	Results (CE or R-A)		%,ppm	0.00-100.0	5	F5.1
		68	Alternative specification flag ³			0,1	1	I1
		69	[Reserved]				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
		73	Off-line/On-line indicator (OFF-unit not operating, ON-unit operating)			ON,OFF	3	A3
		76	Reason for test (C-initial demonstration, D-diagnostic)			C,D	1	A1
		77	Test number				2	12
					Total Reco	rd Length	78	

For NO_x and SO₂ emission rate (lb/mmBtu) systems, report the longer cycle time of the two component analyzers as the system cycle time.

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
	•		MISCELLANEOUS QA TES	T/ACTIVIT	Y		•	
Other QA	624	1	Record type code				3	I3
Activities	İ	4	Unit/Stack/Pipe ID				6	A6
		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
,	Ì	16	Parameter	İ	İ		4	A4
		20	Activity/test completion date		YYYYMMDD		8	I8
		28	Activity/test completion hour		НН	00-23	2	I2
		30	QA test activity description	ĺ			20	A20
		50	Test result (P-pass, F-fail)			P,F	1	A1
		51	Reason for test (C-initial cert, D-diagnostic, R-recert, Q-QA)			C,D,R,Q, RQ	2	A2
		53	QA test code			01,02,03,04, 05,99	2	I2
					Total Reco	rd Length	54	
			FUEL FLOWMETER ACCURA	ACY CHEC	KS			
Fuel Flowmeter	627	1	Record type code				3	I3
Accuracy		4	Unit/Pipe ID				6	A6
Test		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
(Modified)		16	Test completion date		YYYYMMDD		8	I8
		24	Test completion hour		НН		2	I2
	<u> </u> 	26	Reinstallation date	ļ	YYYYMMDD		8	I8
		34	Reinstallation hour		HH		2	I2
	<u> </u> 	36	Accuracy at low fuel flowrate (% of URV)	ļ	%		5	F5.1 F5.1
		41	Highest accuracy at mid fuel flowrate (% of URV)		%		5	
		46 51	Accuracy at high fuel flowrate (% of URV) Test method (L-lab comparison to reference		%	I,L	5 1	F5.1 A1
		31	meter, I-in-line comparison to master meter)			1,L	1	AI
		52	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
	! 	53	Test number		İ		2	I2
					Total Reco	rd Length	54	
Accuracy	628	1	Record type code				3	I3
Test for		4	Unit/Pipe ID				6	A6
Orifice, Nozzle, or		10	Component ID				3	A3
Venturi		13	Monitoring system ID				3	A3
Type Fuel		16	Test completion date		YYYYMMDD		8	I8
Flowmeters		24	Test completion hour		НН		2	I2
		26	Accuracy determination at low level ²⁵		%		5	F5.1
		31	Accuracy determination methodology for low level ⁵				4	A4
		35	Highest accuracy determination at mid level ²⁵		%		5	F5.1
		40	Accuracy determination methodology for mid level ⁵				4	A4
		44	Accuracy determination at high level ²⁵		%		5	F5.1
		49	Accuracy determination methodology for high level ⁵				4	A4
		53	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
		54	Test number				2	I2
					Total Reco	rd Length	55	-

Report either: (1) the highest individual accuracy of any of the three transmitters; or (2) the sum of the three transmitter accuracies; or (3) the total fuel flowmeter accuracy calculated according to AGA3 part 1, "General Equations and Uncertainty Guidelines."

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	EST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QUARTERLY FUEL FLOW-TO-	LOAD ANAI	YSIS			
Baseline	629	1	Record type code				3	I3
Data for		4	Unit/Pipe ID				6	A6
Fuel-Flow- to-Load		10	Monitoring system ID				3	A3
Ratio or Gross Heat		13	Completion date of most recent primary element inspection		YYYYMMDD		8	18
Rate Check for Fuel Flowmeters		21	Completion hour of most recent primary element inspection		НН		2	I2
(Modified)		23	Completion date of most recent flowmeter or transmitter accuracy test		YYYYMMDD		8	18
		31	Completion hour of most recent flowmeter or transmitter accuracy test		НН		2	12
		33	Beginning date of baseline period		YYYYMMDD		8	I8
		41	Beginning hour of baseline period		НН		2	12
		43	Completion date of baseline period		YYYYMMDD		8	I8
		51	Completion hour of baseline period		НН		2	12
		53	Average fuel flow rate (100 scfh for gas and lb/hr for oil)				10	F10.1
		63	Average load (MWe or 1000 lb/stream/hr)				6	I 6
		69	Baseline fuel-flow-to-load ratio				6	F6.2
		75	Units of fuel-flow-to-load (1-100scfh/MWe,			1-6	1	I1
			2-100scfh/klb per hour steam, 3-(lb/hr)/MWe, 4-(lb/hr)/klb per hour steam load, 5-(gal/hr)/MWe, 6-(gal/hr)/klb per hour of steam load)					
		76	Average hourly heat input rate		mmBtu/hr		7	F7.1
		83	Baseline GHR				6	I 6
		89	Units of baseline GHR (1 - Btu/kwh, 2 - Btu/lb steam)			1-2	1	I1
		90	Number of hours excluded due to co-firing or combustion of a different type of fuel		hrs		3	13
		93	Number of hours excluded due to ramping		hrs		3	I3
		96	Number of excluded hours in lower 25% of range of operation		hrs		3	13
		99	Flag indicating baseline data collection is in progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test			В	1	A1
					Total Reco	rd Length	99	
Quarterly	630	1	Record type code				3	I3
Fuel-Flow-		4	Unit/Pipe ID		j		6	A6
to-Load Test for Fuel		10	Monitoring system ID				3	A3
Flowmeters		13	Component ID				3	A3
(Modified)		16	Calendar quarter and year		QYYYY		5	I5
(21	Test basis indicator (Q-flow-to-load ratio, H-gross heat rate)			Q,H	1	A1
		22	Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _r		%	0.0-100.0	5	F5.1
		27	Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress)			P,F,N,E,B	1	A1
		28	Number of hours used in the quarterly data analysis	İ	hrs		4	I 4
		32	Number of hours excluded due to co-firing or combustion of a different type of fuel		hrs		4	I 4
		36	Number of hours excluded due to ramping		hrs		4	I 4
		40	Number of excluded hours in lower 25% of range of operation		hrs		4	I4
		1	1 *	L	Total Reco	rd Length	43	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

	CERTIFICATION TEST DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
	ALTERNATIVE MONITORING PETITION DATA										
Alternative	640	1	Record type code				3	I3			
Monitoring System		4	Unit/Stack ID				6	A6			
Approval		10	Component ID				3	A3			
Petition		13	Monitoring system ID				3	A3			
Data		16	AMS ID				6	A6			
		22	Date		YYMMDD		6	I6			
		28	Hour		НН	00-23	2	I2			
		30	Hourly test data for alternative monitoring system				13	F13.3			
		43	Hourly lognormalized test data for alternative monitoring system				13	F13.3			
		56	Hourly test data for reference CEMS				13	F13.3			
		69	Fuel type code				2	I2			
		71	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1			
		72	Gross unit load		MWe		6	I6			
					Total Reco	ord Length	77				

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION T	EST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			ALTERNATIVE MONITORING	G PETITION DA	ATA	•	•	
Alternative Monitoring	641	1	Record type code				3	I3
System		4	Unit/Stack ID				6	A6
Approval Petition		10	Component ID				3	A3
Results and		13	Monitoring system ID				3	A3
Statistics		16	Unit of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ O)			1-7	1	A1
		17	Arithmetic mean of AMS values				13	F13.3
		30	Arithmetic mean of CEM values				13	F13.3
		43	Arithmetic mean of differences of paired AMS and CEM values				13	F13.3
		56	Variance of differences				13	F13.3
		69	Variance of measured values of AMS				13	F13.3
		82	Variance of measured values for CEM				13	F13.3
		95	F-statistic				13	F13.3
		108	Critical value of F at 95% confidence level for sample size				13	F13.3
		121	Coefficient of correlation (Pearson's r) of CEM and AMS data				13	F13.3
		134	Shapiro-Wilk test statistic (W) for AMS data				13	F13.3
		147	Shapiro-Wilk test statistic (W) for CEMS data				13	F13.3
		160	Lognormally adjusted data used in final analysis (1-yes, 0-no)			0,1	1	I1
		161	Autocorrelation coefficient (p) for AMS data				13	F13.3
		174	Autocorrelation coefficient (ρ) for CEM data				13	F13.3
		187	Autocorrelation coefficient (ρ) for differences of paired AMS and CEM data				13	F13.3
		200	Adjustment for autocorrelation used in final analysis (1-yes, 0-no)			0,1	1	I 1
		201	Covariance of alternative monitoring data and associated lag(1) values				13	F13.3
		214	Covariance of continuous emission monitoring data and associated lag(1) values				13	F13.3
		227	Covariance of differences of paired AMS and CEM data				13	F13.3
		240	Standard deviation of AMS data				13	F13.3
		253	Standard deviation of CEM data				13	F13.3
		266	Standard deviation of differences of paired AMS and CEM data				13	F13.3
		279	Standard deviation of lag(1) AMS data				13	F13.3
		292	Standard deviation of lag(1) CEM data				13	F13.3
		305	Standard deviation of lag(1) differences of paired AMS and CEM data				13	F13.3
		318	Variance inflation factor for AMS data				13	F13.3
		331	Variance inflation factor for CEM data				13	F13.3
		344	Variance inflation factor for difference of paired AMS and CEM data				13	F13.3
		I	1	1	Total Rec	ord Length	356	<u> </u>

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TH	EST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		•	LOW MASS EMISSIONS CERT	IFICATION D	ATA		1	
Qualifying	645	1	Record type code				3	I3
Data for Low Mass		4	Unit ID				6	A6
Emissions Units		10	Calendar year of application		YYYY		4	I4
Excepted Methodology		14	Type of qualification			YR,OS	2	A2
(Modified)		16	Year 1		YYYY		4	I4
		20	Annual or OS measured/projected/estimated NO _x mass emissions for Year 1		ton		4	F4.1
		24	Annual or OS NO _x mass calculated from emission factors for Year 1		ton		4	F4.1
		28	Annual measured/projected/estimated SO ₂ mass emissions for Year 1	ARP only	ton		4	F4.1
		32	Annual SO ₂ mass calculated from emission factors for Year 1	ARP only	ton		4	F4.1
		36	Annual or OS operating hours for Year 1		hrs		4	I4
		40	Year 2		YYYY		4	I4
		44	Annual or OS measured/projected/estimated NO _x mass emissions for Year 2		ton		4	F4.1
		48	Annual or OS NO _x mass calculated from emission factors for Year 2		ton		4	F4.1
		52	Measured/projected/estimated SO ₂ mass emissions for Year 2	ARP only	ton		4	F4.1
		56	Annual SO ₂ mass calculated from emission factors for Year 2	ARP only	ton		4	F4.1
		60	Annual or OS operating hours for Year 2		hrs		4	I4
		64	Year 3		YYYY		4	I4
		68	Annual or OS measured/projected/estimated NO _x mass emissions for Year 3		ton		4	F4.1
		72	Annual or OS NO _x mass calculated from emission factors for Year 3		ton		4	F4.1
		76	Measured/projected/estimated SO ₂ mass emissions for Year 3	ARP only	ton		4	F4.1
		80	Annual SO ₂ mass calculated from emission factors for Year 3	ARP only	ton		4	F4.1
		84	Annual or OS operating hours for Year 3		hrs		4	I4
<u> </u>		•		<u> </u>	Total Record	Length	87	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			APPENDIX E TEST I	DATA		•		•
NO _x Emission	650	1	Record type code				3	I3
Rate Correlation Test Data		4	Unit/Pipe ID				6	A6
(Modified)		10	Monitoring system ID for Appendix E NO _x system				3	A3
(13	Reference method run start date		YYMMDD		6	I6
		19	Reference method run start time		HHMM	0000-2359	4	I4
		23	Reference method run end date		YYMMDD		6	I6
		29	Reference method run end time		HHMM	0000-2359	4	I4
		33	Reference method response time		sec	0-800	3	13
		36	Value from reference method during run	İ	lb/mmBtu		8	F8.3
		44	Run number				2	I2
		46	Operating level (1-lowest)	İ		1-99	2	I2
		48	Type of fuel combusted ⁵				1	A1
		49	Total heat input during the run		mmBtu		7	F7.1
		56	[Reserved]				3	
		59	Hourly heat input rate during run		mmBtu/hr		7	F7.1
		66	Test number				2	I2
		68	[Reserved]				1	
		69	[Reserved]				6	
_					Total Reco	rd Length	74	
NO _x Emission	651	1	Record type code				3	I3
Rate Correlation		4	Unit/Pipe ID				6	A6
Results		10	Monitoring system ID for Appendix E NO _x system				3	A3
		13	Completion date of last run in level		YYMMDD		6	I6
		19	Completion time of last run in level		HHMM	0000-2359	4	I4
		23	Arithmetic mean of reference method values at this level		lb/mmBtu		8	F8.3
		31	F-factor converting NO _x concentrations to emission rates				10	F10.1
		41	Average heat input rate at this level		mmBtu/hr		7	F7.1
		48	Operating level (1-lowest)	İ		1-99	2	12
		50	Type of fuel combusted ⁵				1	A1
		51	Test number	<u> </u>		<u> </u>	2	I2
					Total Reco	rd Length	52	

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

	CERTIFICATION TEST DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
			APPENDIX E TEST D	ATA							
Heat Input from Oil Combusted	652	1	Record type code				3	I3			
During Test		4	Unit/Pipe ID				6	A6			
C		10	Monitoring system ID for oil fuel flow system				3	A3			
		13	Run start date		YYMMDD		6	I6			
		19	Run start time		HHMM	0000-2359	4	I4			
		23	Run end date		YYMMDD		6	I6			
		29	Run end time		HHMM		4	I4			
		33	Run number				2	I2			
		35	Mass of oil combusted during run		1b		10	F10.1			
		45	Gross calorific value (GCV) of oil	ļ	ļ		10	F10.1			
		55	Heat input from oil during run		mmBtu		7	F7.1			
		62	Volume of oil combusted during run				10	F10.1			
		72	Units of measure for oil flow 5				5	A5			
		77	Density of oil				8	F8.6			
		85	Units of measure for density of oil 5				5	A5			
		90	Test number				2	I2			
		92	Units of measure for GCV 5				6	A6			
ı		1	T	1	Total Recor	d Length	97	ı			
Heat Input from Gas Combusted	653	1	Record type code				3	I3			
During Test		4	Unit/Pipe ID				6	A6			
-		10	Monitoring system ID for gas fuel flow system				3	A3			
		13	Run start date		YYMMDD		6	I6			
		19	Run start time	ļ	ННММ	0000-2359	4	I4			
		23	Run end date		YYMMDD		6	I6			
		29	Run end time		ННММ	0000-2359	4	I4			
		33	Volume of gas combusted during run		100 scf		10	F10.1			
		43	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1			
		53	Heat input from gas during run		mmBtu		7	F7.1			
		60	Test number				2	I2			
		1		1	Total Recor	d Length	61	1			
Unit Group Testing	660	1	Record type code				3	13			
resting		4	Group ID				8	A8			
0.6 1.6 1)		12	ORIS code or facility ID				6	I6			
(Modified)		18	Plant name				20	A20			
LME Only		38	Unit ID	ļ	ļ		6	A6			
		44	Test status (AE-App. E testing performed, NT-no testing performed)			AE, NT	2	A2			
		46	Test date for unit (blank, if not tested)		YYYYMMDD		8	I8			
		54	Default rate from identical unit testing (if applicable)		lb/mmBtu		6	F6.3			
		60	Purpose of group tests (DF-default rate)			DF	2	A2			
		62	Type of fuel ⁵				1	A1			
		63	[Reserved]				3	A3			
					Total Recor	rd Length	65				

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QA TEST EXTENSIONS/EXEMP	TION CLAI	MS			
Single-load Flow	695	1	Record type code				3	I3
RATA Claim		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
		13	End date of last annual flow RATA		YYYYMMDD		8	I8
		21	End date of historical load data collection period		YYYYMMDD		8	I8
		29	Historical % usage of low load level (≤ 30.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		34	Historical % usage of mid load level (>30.0 through 60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		39	Historical % usage of high load level (>60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		44	Load level for the single-load flow RATA			L,M,H	1	A1
•					Total Recor	d Length	44	
Fuel Flowmeter	696	1	Record type code				3	I3
Accuracy Test Extension		4	Unit/Pipe ID				6	A6
Extension		10	Monitoring system ID				3	A3
		13	Date of last accuracy test		YYYYMMDD		8	I8
		21	Accuracy test expiration date without extension		YYYYMMDD		8	I8
		29	Accuracy test expiration date with extension		YYYYMMDD		8	I8
		37	Type of extension ²⁶			1-5	2	I2
		39	Quarter and year		QYYYY		5	A5
<u> </u>					Total Recor	d Length	43	

²⁶ Limited to table of codes:

- 1 Accuracy test extension (reporting quarter does not qualify as a "fuel flowmeter QA operating quarter")
- 2 Accuracy test extension based on successful fuel flow-to-load ratio or GHR test
- 3 Accuracy test extension based on ongoing baseline data collection for fuel-to-load ratio or GHR test
- 4 Extension claimed because fewer than 168 hours of fuel flowmeter data remained for fuel flow-to-load ratio analysis, after allowable data exclusions were taken under Section 2.1.7.3 of Appendix D
- 5 Extension for first or fourth calendar quarter for ozone season reporter using fuel flow-to-load test.

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

CERTIFICATION TEST DATA									
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)	
RATA Deadline	697	1	Record type code				3	I3	
Extension or		4	Unit/Stack ID				6	A6	
Exemption		10	Monitoring system ID				3	A3	
		13	Date of last RATA		YYYYMMDD		8	I8	
(Modified)		21	RATA expiration date without extension		YYYYMMDD		8	I8	
		29	RATA expiration date with extension		YYYYMMDD		8	I8	
		37	Type of RATA extension or exemption claimed or lost ²⁷			1-9	2	12	
		39	Year-to-date usage of fuel with sulfur content higher than very low sulfur fuel (as defined in § 72.2)		hrs		4	I4	
		43	Year-to-date hours of regular non-redundant back-up CEMS use at this unit/stack		hrs		4	I4	
		47	Quarter and year		QYYYY		5	A5	
•					Total Recor	d Length	51		

Limited to table of codes:

- 1 RATA deadline extension claimed for the monitoring system identified in RT 697/10. Unit/stack operated for fewer than 168 hours this quarter
- 2 SO₂ RATA deadline extension claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 3 Ongoing SO₂ RATA exemption claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 4 Conditional SO_2 RATA exemption claimed. Year-to-date usage of fuel with a higher sulfur content than 'very low sulfur' fuel (as defined in § 72.2) is \leq 480 hours.
- 5 Conditional RATA exemption claimed. Year-to-date usage of a regular (B) non-redundant backup monitoring system at this unit/stack is < 720 hours and less than 8 full quarters have elapsed since last RATA
- 6 Ongoing SO₂ RATA exemption lost. Fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 7 Conditional SO₂ RATA exemption lost. Year-to-date usage of fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) has exceeded 480 hours
- 8 Conditional RATA exemption lost. Year-to-date usage of a regular non-redundant backup monitoring system has exceeded 720 hours at this unit or stack
- 9 Exemption From Performing Single-Load RATA at Normal Load. An EPA-approved exemption from performing a required single-load RATA at a normal load is claimed.

TABLE 4: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QA TEST EXTENSIONS/EXEMP	TION CLAIN	MS			
Quarterly QA	698	1	Record type code				3	I3
Test Exemption Claim		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Basis for exemption ²⁸			1-9	1	I1
		17	Type of test			F,K,L	1	A1
		18	Quarter and year		QYYYY		5	15
		23	Span scale			L,H	1	A1
		•			Total Recor	d Length	23	
QA Test Extension Claim	699	1	Record type code				3	13
Based on Grace		4	Unit/Stack ID				6	A6
Period		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Type of test (K-Leak Test, L-linearity, R-RATA)			K,L,R	1	A1
		17	Beginning of grace period		YYYYMMDD		8	18
		25	Date of completion of required QA test		YYYYMMDD		8	18
		33	Hour of completion of required QA test		НН	00-23	2	I2
		35	Number of unit/stack operating hours from beginning of grace period to completion of QA test or maximum allowable grace period		hrs		3	13
		38	Date of end of grace period		YYYYMMDD		8	18
		46	Hour of end of grace period		НН	00-23	2	12
					Total Recor	d Length	47	

^{28 1} Exemption for fewer than 168 unit/stack operating hours in quarter or reporting period

² Linearity exemption analyzer range not used during calendar quarter (dual span only)

³ Flow-to-load test exemptions approved by petition under §75.66 and Section 7.8 of Appendix A

⁴ Linearity exemption for SO_2 or NO_x analyzer span value ≤ 30 ppm

TABLE 5: COMPLIANCE CERTIFICATION DATA

			CERTIFICATION INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	PROGRAM	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CERTIFICATION DA	TA				
Part 75	900	1	Record type code				3	I3
Certification Statement and Designated		4	Electronic representation of Part 75 certification statements ²⁹				18	A18
Representative Signature		22	DR last name				25	A25
ARP Only		47	DR first name				15	A15
AKI Olly		62	DR middle initial				2	A2
		64	Date of signature			YYMMDD	6	I6
		70	Title (DR or ADR)			DR,ADR	3	A3
				Tota	al Record L	ength	72	
Part 72 Certification	901	1	Record type code				3	I3
Statement		4	Certification statement line #			1-12	2	I2
ARP Only		6	Certification text (see instructions for verbatim text)				67	A67
		•	•	Tota	al Record L	ength	72	
Cover Letter	910	1	Record type code				3	I3
Text (file- specific)		4	Cover letter text, file-specific (see instructions)				69	A69
(Optional)	Total Record Length 72							
Cover Letter Text	920	1	Record type code				3	I3
(not specific to file)		4	Other cover letter text, not file-specific (see instructions)				69	A69
(Optional)				Tota	al Record L	ength	72	

²⁹ The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

"CERTIFY" means:

"I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1, as required by 40 CFR 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are submitted following the provisions of 75.34(a)(a) that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate SO_2 or other emissions, pursuant to § 75.34.

I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1, as required by 40 CFR 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under 40 CFR 75.4, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any SO_2 , NO_x , or CO_2 emissions during the reporting period specified in the quarterly submission."

TABLE 5: COMPLIANCE CERTIFICATION DATA

CERTIFICATION INFORMATION								
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	PROGRAM	UNITS	RANGE	LENGTH	FORMAT (FTN)
Subpart H Certification Statement and NO _x Authorized Account Representative Signature	940	1	Record type code				3	I3
		4	Electronic representation of NO _x Budget Program certification statements ³⁰				18	A18
		22	AAR last name				25	A25
		47	AAR first name	j			15	A15
		62	AAR middle initial				2	A2
Subpart H Only	! 	64	Date of signature	j			6	I6
om,		70	Title (AAR or AAAR)				4	A4
			·	Total Record Le	ength		73	
Subpart H General	941	1	Record type code				3	I3
Certification Statement		4	Certification statement line #	į		1-11	2	12
Subpart H Only		6	Certification text (ask State for verbatim text)				67	A67
		•		Total Record Le	ength		72	
	999	1	Record type code				3	I3
Contact Person		4	First name				10	A10
Record		14	Last name				15	A15
(Optional)		29	Role/Position of contact person				20	A20
		49	Company				20	A20
		69	DR indicator flag (D-DR/ADR/AAR/AAAR, N-Other)			D,N	1	A1
		70	Phone #				10	I10
		80	Fax #				10	I10
		90	E-mail address				75	A75
				Tota	l Record L	ength	164	

The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

Unless otherwise specified by State requirements, "CERTIFY" means:

"I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are substituted that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate emissions.

I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under Part 75 and applicable State regulations, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any NO_X emissions during the reporting period specified in the submission."

Appendix A

Table A-1: Differences between March 2003 and January 24, 2001 Editions of EDR v2.1

Record Type	Data Field(s) Affected	Description of Change from January 24, 2001 Edition	Reason for Change
100	Column 15	Eliminate reference to EDR version 2.0	Use of version 2.0 is being discontinued
200	Column 41	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet SO_2 monitor in certain instances
201	Column 30	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet NO_x monitor in certain instances
202	Column 30	Remove MODC "23"	The standard missing data procedures are used for O ₂ , CO ₂ , and H ₂ O during bypass hours
210	Column 29		and 1150 during bypass nours
211	Column 29		
212	Column 32		
220	Column 56	Remove MODC "23"	This code is not supported by the rule. Regular missing data routines are used for flow during scrubber bypass hours
302	Column 31	Modify codes	Remove obsolete OTC codes
302	Column 44	Reserve this field	This field was used only by OTC sources
302	Column 74	Modify codes	Make codes consistent with existing policy guidelines
302	Column 88	Reserve this field	This field was used only by OTC sources
302	Columns 90, 92	Modify code descriptions	June, 2002 rule includes changes to oil sampling provisions
303	Column 31	Modify codes	June, 2002 rule has new provisions for emergency fuel combustion.
303	Column 44	Reserve this field	This field was used only by OTC sources
303	Column 60	Modify codes	Delete unnecessary codes. Change code descriptions to better match the June, 2002 rule
313	Column 44	Delete unnecessary code "0". Modify other code descriptions	Make code descriptions consistent with the June, 2002 rule
314	Column 52	Modify code descriptions	Make code descriptions consistent with the June, 2002 rule
320	Column 53	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet NO_x monitor in certain instances
323	Column 21	Add new codes for Parameter Status Flag	June, 2002 rule changed the data substitution procedures for Appendix E for emergency fuels and uncontrolled hours
324	Column 24	Add new codes for Parameter Status Flag	June, 2002 rule changed the data substitution procedures for Appendix E for emergency fuels and uncontrolled hours
505	Column 10	Delete unnecessary code "SIP." Modify other code descriptions	Clarify program identifier codes for OTC sources transitioning to Subpart H monitoring and reporting
506	Column 31	Reserve this field	Eliminate confusion over ORISPL number versus facility ID number
510	Column 21	Add a new code, "CI," to list of "primary/backup" designations in footnote 18	June, 2002 rule allows data to be reported from a certified inlet SO_2 monitor in certain instances
510	Column 23	Add new component type code "TANK"	Code needed for groups of LME units served by a common oil supply tank
520	Column 14	Add parameter code "SO2R" for units using equation D-1h	This code was missing from previous versions
520	Column 18	Add new code "F-19V"	June, 2002 rule allows Subpart H units to determine heat input directly from data recorded by a volumetric fuel flowmeter
520	Table 13	Modify Equation D-1h	June, 2002 rule puts Eq. D-1h on a total sulfur basis
530	Column 15	Add new codes "ME" and "PL"	June, 2002 rule provides two new MPC/MEC determination methods for NO _x

Table A-1: Differences between March 2003 and January 24, 2001 Editions of EDR v2.1(cont.)

Record Type	Data Field(s) Affected	Description of Change from January 24, 2001 Edition	Reason for Change
530	Column 62	Add new codes "AMSEC," "SMSEC"	Metric velocity units are used for the daily calibrations of certain stack flow monitors
530	Column 84	Modify data element description in EDR format	Clarify that "default value" refers to the "default high range value"
531	Column 41	Add "NOXU" to list of acceptable parameters under the source of value code "DATA" and modify the description of this code.	June, 2002 rule allows reporting of the NO_x MER in the interval between first use of LME methodology and completion of fuel-and-unit-specific NO_x emission rate testing (§ 75.19 (a)(4)).
531	Column 65	Revise data element description	This field applies to units using Equation F-23, as well as LME units.
535	Column 18	Reserve this field	This field was used only by OTC sources.
535	Column 19	Modify the data element description. Redefine code "S".	Certain units with installed flow monitors may be exempted by petition under § 75.66 from multi-load flow RATA testing
540	Column 38	Add new code "ISO"	An "ISO" fuel flowmeter calibration method is listed in section 2.1.5.1 of Appendix D
560	Column 57	Reserve this field	This field was used only by OTC sources.
585	Column 14	Add a new Methodology code for units with unmonitored bypass stacks that report MPC or MER during bypass hours	June, 2002 rule clarifies and expands bypass stack provisions
585	Column 24	Add new fuel codes	Certain Acid Rain and Subpart H units combust unusual fuels (e.g., process sludge, coal refuse, etc.)
585	Column 24	Add "LPG Liquefied Petroleum Gas" to list of fuel codes	LPG is shown in Tables 33 and 35 as an acceptable fuel code, but is not on the list in column 24.
585	Column 28	Add new code for Missing Data Approach	June 2002 rule allows ozone-season specific NO _x missing data procedures for year-round reporters
585	Table 33	Add "LPG" to Table 33 as an acceptable fuel code under parameter "HI," methodology "GFF."	LPG should be included in the list of gaseous fuels that can be measured by a gas fuel flowmeter.
585	Table 35	Add Methodology code "EXP" for Heat Input	Some Non-Acid Rain Subpart H Units are exempt from heat input monitoring per the State SIP or by special petition
586	Column 46	Delete reference to OTC from "FIELD NOTES"	The OTC Program is superseded by the NO _x Budget Trading Program
587	Column 10	Add new fuel types	Certain Acid Rain and Subpart H units combust unusual fuels (e.g., process sludge, coal refuse liquefied petroleum gas, etc.)
587	Column 30	Delete "OTC" from "FIELD NOTES" column	The OTC Program is superseded by the NO _x Budget Trading Program
611	Column 23	Add new code for Reference Method 20	June, 2002 rule allows Reference Method 20 to be used for NO_x RATAs
624	Column 53	Added QA test codes for PEMS	Monitoring under Subpart E would require these new codes
627	Columns 26 and 34	Modify data element descriptions	Make consistent with existing policy guidance
629	Column 75	Add code 5 and 6 for volumetric fuel flow	Non-Acid Rain Subpart H Units are not required to report mass of oil
629	Column 90	Modify data element description	June, 2002 rule allows a new data exclusion (for co-firing) for the fuel flow-to-load ratio test
630	Column 32	Modify data element description	June, 2002 rule allows a new data exclusion (for co-firing) for the fuel flow-to-load ratio test
645	Columns 20, 28, 44, 52, 68, 76	Modify certain data element descriptions.	June, 2002 rule significantly changes the methodology for a unit to qualify as a low mass emissions (LME) unit

Table A-1: Differences between March 2003 and January 24, 2001 Editions of EDR v2.1(cont.)

Record Type	Data Field(s) Affected	Description of Change from January 24, 2001 Edition	Reason for Change
650	Columns 68 and 69	Reserve these fields	June, 2002 rule changes the method of determining LME default NO_x emission rates. All LME tests performed after 7/12/02 must use the new calculation methodology and be submitted in V2.2 format.
660	Column 44	Remove the code "OT"	This code applied only to OTC sources
660	Column 60	Delete the code "AE" from RANGE	Use of this code was allowed only for OTC sources
660	Column 63	Reserve this field	This field was needed only for OTC sources.
696	Column 37	Add Extension code 5 to code list in footnote	This code was missing from previous versions
697	Column 37	Add code "9"	Special code for single-load RATA performed at a non- normal load (requires EPA approval)

^{**} To properly assess the changes made to the codes for a particular data field, see the "Revised EDR Version 2.1 Reporting Instructions" for that field, in addition to Tables 2 through 5 of this document.